PRODUCT RANGE 2004 · 2005

# solutions for all your needs

YORK®

http://unitary-europe.york.com

YORK®

York designs, manufactures, and provides after-sales service world wide for heating, air conditioning and refrigeration applications.

The world has envolved tremendously during the past few years, technology is the word of the 21st Century, and this technology has been embraced by York in providing comfort for you.

Our target is to deliver the products that better fit your needs, with the best quality for satisfy our customer offering them the latest technologies available in the Industry, bees friendly with the ambient, and offering the best service to you in terms of comfort.

York is 25.000 employes world wide company based in all the European Countries.

York is highly aware of the impact of the industrial society on our environment, which is why we are always loocking for the highest performance, lowest power consumption, use of green refrigerants, and best use of the natural resources for bringing you comfort whilst preserving our planet.

ISO 9001
All your factories are ISO 9001certified
ensuring high quality product.

ISO 14001
All York Factories are 14001 certified,
repecting the environment.

EUROPEAN COMMUNITY
All work product are CE marked

EUROVENT
York participates to the Eurovent certification
programs AC1, AC2, AC3, FC and LCP.

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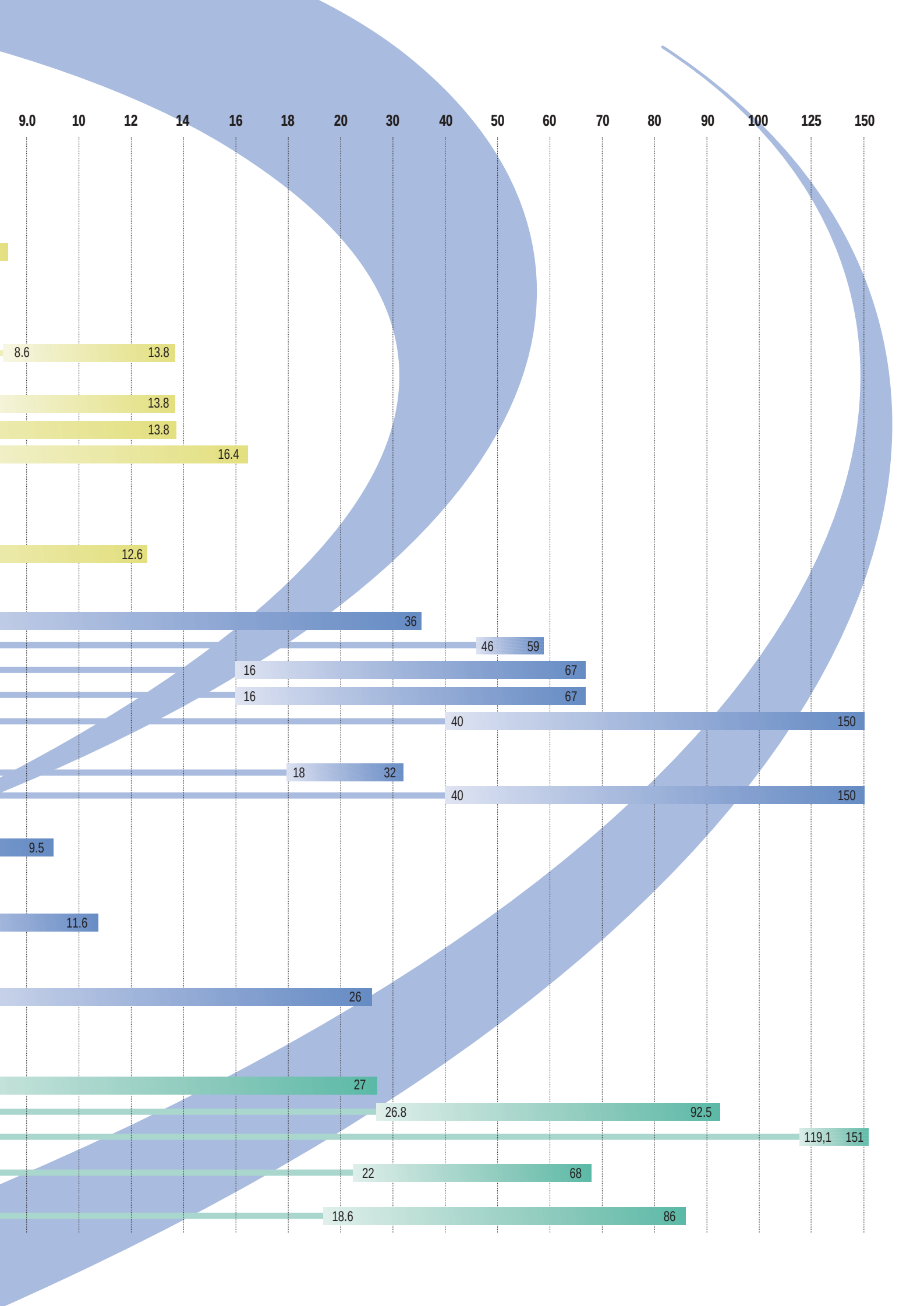
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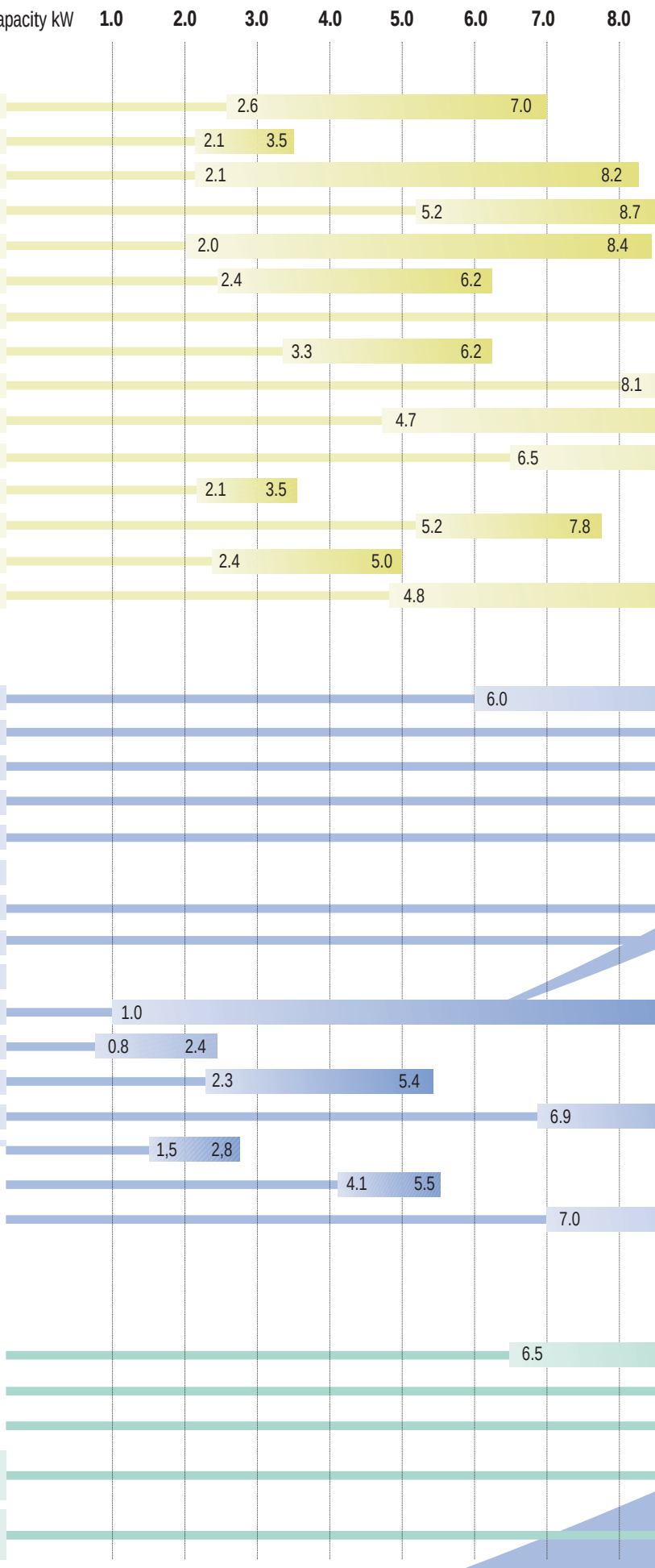

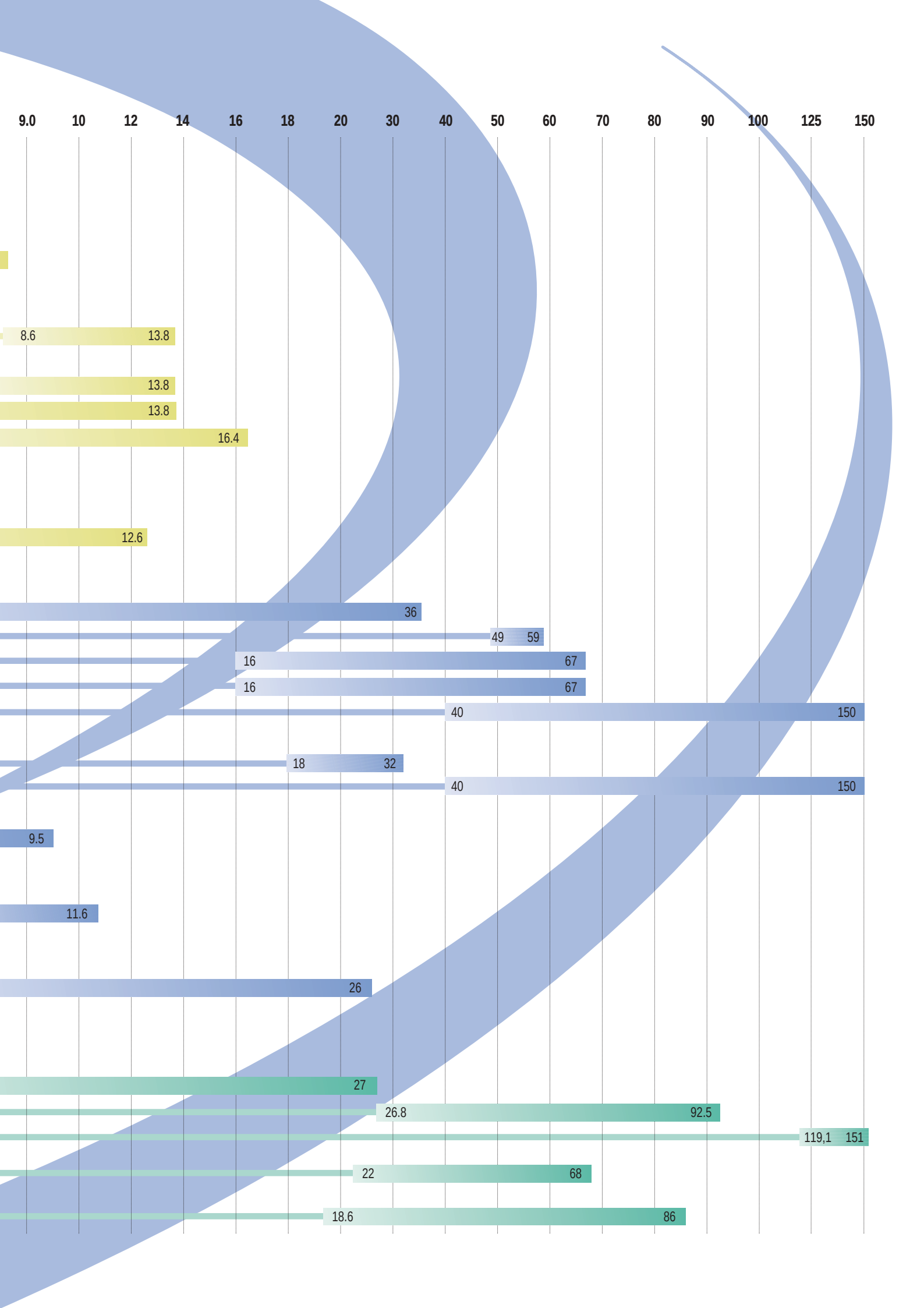
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YORK®

Split

# Split Systems

CONFORME NORMAS ISO 9001
AENOR
ER-0028/1991

CONFORME NORMAS ISO 14001
AENOR
Gestión Ambiental
CGM-97/013

EUROVENT
CERTIFIED PERFORMANCE

CE

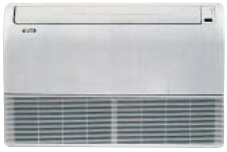
**New !**

**High Wall High Efficiency (R410A)**
**High Wall Multisplit (R407C)**
**High Static Pressure Ducted Split (R407C)**
**High Wall DC Inverter (R410A)**
**High Wall Inverter Multisplit (R407C)**

# Systems

## Window

## Minisplit & Multisplit



## Inverter & Multi Inverter

# Split Systems Window

- Automatic air sweep
- Slide-out chassis
- Stale air extraction damper
- Adjustable discharge grill

CE R407C

Control panel

**YM 9V6 G**
**YM 9V7 G**

Control panel

**YO 12-19-24V6 G**
**YO 12-19-24V7 G**



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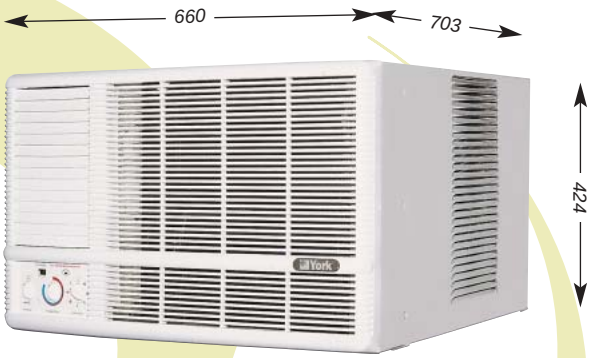
# Split Systems Window

## YM-YO 09V G - 24V G

YM 9V6 - YM 9V7




YO 12-19-24V6
YO 12-19-24V7

**Technical features**

| | | YM - YO | | | |
|---|---|---|---|---|---|
| **Models** | Sizes | **YM 09V G** | **YO 12V G** | **YO 19V G** | **YO 24V G** |
| Capacity Cooling : V6 | kW | 2.6 | 3.5 | 5.4 | 7.0 |
| Capacity Heating : V7 | kW | 2.1 | 3.5 | 5.2 | 6.7 |
| Power supply | V/Ph/Hz | 230 / 1 / 50 + E | | | |
| Compressor | Type | Rotary | Reciprocating | | |
| Refrigerant | Type | R407C | | | |
| Power input | kW | 1.1 | 1.6 | 2.4 | 2.9 |
| Nominal current | A | 4.6 | 8 | 11.7 | 13.5 |
| Indoor airflow | $m^3/h$ | 455 | 510 | 781 | 900 |
| Number of fan speeds | | 2 | 3 | 3 | 3 |
| Noise level (low speed at 2.5 m.) | dB(A) | 41 | 42 | 45 | 46 |
| Dimensions | H (mm) | 343 | 424 | 424 | 424 |
| | W (mm) | 529 | 660 | 660 | 660 |
| | D (mm) | 488 | 703 | 703 | 703 |
| Starting current | A | 7.2 | 12.5 | 18.3 | 20.5 |
| Refrigerant charge (heating/cooling model) | gr | 500 / 480 | 636 / 686 | 940 / 946 | 1 040 / 1 205 |
| Nett weight | kg | 38 | 68 | 73 | 79 |

*Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB*
*Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB*

# Split Systems High wall “High Efficiency” R410A

- Wireless Control
- Dry Mode
- Sleep mode
- Timer
- Auto sweep
- Auto restart

**HACC-HAHC 07-09**

**New !**

**HACC-HAHC 12**

- High efficiency
- Automatic restart
- Active carbon Electrostatic filter
- Clock function
- Automatic air sweep
- Service valve protective cover
- Rustproof casing
- Remote Controller

- Wireless
- 5 operations modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- Air flow direction setting
- LCD display

CE EUROVENT CERTIFIED PERFORMANCE **R410A**

**ACCESSORIES :**

- “Pure Aire” Filter
- Condensate pump
- Plasma Filter
- Wall mounting kit
- Floor mounting kit



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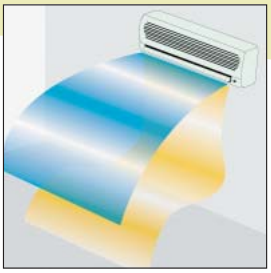
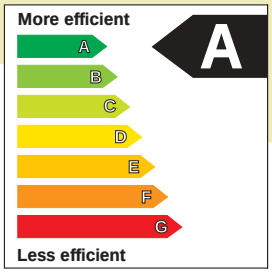
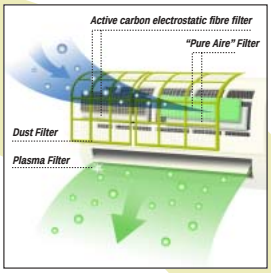
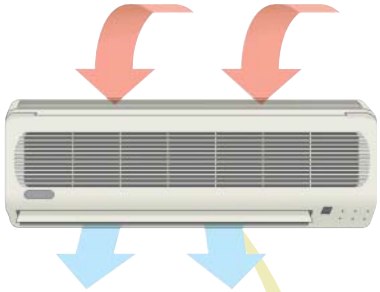
# Split Systems High wall
# "High Efficiency" R410A

## HACC-HAHC 07 to 12





**Technical features**

| Set reference | | | HACC-HAHC | | |
|---|---|---|---|---|---|
| **Models** | | Sizes | **07F** | **09F** | **12F** |
| Cooling capacity | | kW | 2.1 | 2.6 | 3.5 |
| Heating capacity | | kW | 2.5 | 3.2 | 4.1 |
| Compressor | | Type | Rotary | | |
| Refrigerant | | | R410A | | |
| Power supply | | V/Ph/Hz | 230 / 1 / 50 + E | | |
| Power input (cooling/heating) | | kW | 0.64 / 0.69 | 0.82 / 0.89 | 1.12 / 1.14 |
| EER / COP | | w/w | 3.2 / 3.6 | 3.2 / 3.6 | 3.2 / 3.6 |
| Indoor airflow (high speed) | | $m^3/h$ | 450 | 500 | 650 |
| Noise level at 1 m | Indoor | dB(A) | 30 / 32 / 34 | 31 / 34 / 37 | 34 / 37 / 40 |
| | Outdoor | dB(A) | 51 | 52 | 55 |
| Dimensions | Ind./Outd. | H (mm) | 250 / 535 | 250 / 540 | 280 / 590 |
| | | W (mm) | 750 / 700 | 750 / 780 | 815 / 760 |
| | | D (mm) | 188 / 235 | 188 / 250 | 195 / 285 |
| Net weight | Indoor unit | kg | 8.5 | 8.5 | 10.5 |
| | Outdoor unit | kg | 30 | 36 | 41 |
| Piping | Type of connection | | Flare | | |
| | Diameter | Gas | 3/8" | 3/8" | 1/2" |
| | | Liquid | 1/4" | 1/4" | 1/4" |
| Operating limits - cooling mode | | mini/maxi | +15°C / +43°C | | |
| Operating limits - heating mode | | mini/maxi | -10°C / +24°C | | |

*Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB*
*Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB*
*Piping length : 5m with initial charge*

**Accessories**

| Sizes | **07** | **09** | **12** |
|---|---|---|---|
| Plasma Filter | APF01M | | |
| "Pure Aire" Filter | ABF01M | | |
| Condensate pump | AMP01B | | |
| Wall mounting kit | AMW42A | | |
| Floor mounting kit | AMF44B | | |

# Split Systems High wall

- Wireless Control
- Dry Mode
- Sleep mode
- Timer
- Auto sweep
- Auto restart

**HECB-HEHB 07 to 12**

**New !**

- Automatic restart
- Active carbon Electrostatic filter
- Clock function
- Automatic air sweep
- Service valve protective cover
- Rustproof casing
- Remote Controller

- Wireless
- 5 operations modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- Air flow direction setting
- LCD display

**HECB-HEHB 18 to 30**

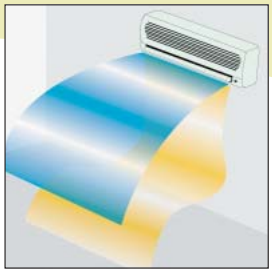
R407C

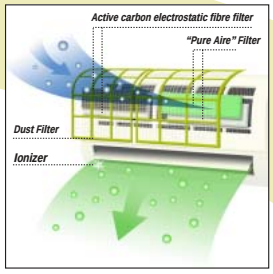
**ACCESSORIES :**

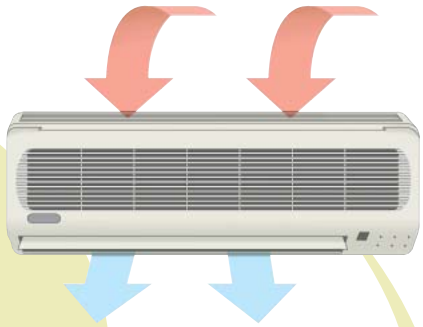
- "Pure Aire" Filter
- Ionizer
- Condensate pump
- Wall mounting kit
- Floor mounting kit

# Split Systems High wall

## HECB-HEHB 07 to 30





### Technical features

| Set reference | | | HECB-HEHB | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Models** | | Sizes | **07F** | **09F** | **12F** | **18F** | **24F** | **30F** |
| Cooling capacity | | kW | 2.1 | 2.6 | 3.5 | 5.3 | 7.0 | 8.2 |
| Heating capacity | | kW | 2.5 | 3.2 | 4.0 | 6.2 | 7.9 | 9.7 |
| Compressor | | Type | Rotary | | | | | Scroll |
| Refrigerant | | | R407C | | | | | |
| Power supply | | V/Ph/Hz | 230/1/50+E | | | | | 400/3/50+E N |
| Power input (cooling/heating) | | kW | 0.8 / 0.88 | 1.0 / 1.1 | 1.3 / 1.5 | 2.0 / 2.2 | 2.8 / 2.8 | 3.3 / 3.3 |
| EER / COP | | w/w | 2.6 / 2.8 | 2.6 / 3.0 | 2.6 / 3.0 | 2.6 / 2.8 | 2.5 / 2.8 | 2.5 / 2.9 |
| Indoor airflow (high speed) | | $m^3/h$ | 430 | 470 | 580 | 800 | 1 050 | 1 150 |
| Noise level at 1 m | Indoor | dB(A) | 30 / 32 / 35 | 30 / 32 / 36 | 29 / 32 / 36 | 35 / 37 / 41 | 37 / 40 / 43 | 39 / 42 / 45 |
| | Outdoor | dB(A) | 49 | 50 | 50 | 53 | 55 | 57 |
| Dimensions | Ind./Outd. | H (mm) | 250 / 535 | 250 / 540 | 280 / 540 | 286 / 695 | 330 / 695 | 330 / 695 |
| | | W (mm) | 750 / 700 | 750 / 780 | 815 / 780 | 906 / 845 | 1 080 / 845 | 1 080 / 845 |
| | | D (mm) | 188 / 235 | 188 / 250 | 195 / 250 | 235 / 335 | 222 / 335 | 222 / 335 |
| Net weight | Indoor unit | kg | 8.5 | 8.5 | 10.5 | 16.5 | 17 | 17 |
| | Outdoor unit | kg | 30 | 36 | 36 | 57 | 61 | 63 |
| Piping | Type of connection | | Flare | | | | | |
| | Diameter | Gas | 1/4" | 1/4" | 1/4" | 1/2" | 5/8" | 5/8" |
| | | Liquid | 3/8" | 3/8" | 1/2" | 1/4" | 3/8" | 3/8" |
| Operating limits - cooling mode | | mini/maxi | +15°C / +43°C | | | | | |
| Operating limits - heating mode | | mini/maxi | -7°C / +24°C | | | | | |

*Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB*
*Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB*
*Piping length : 5m with initial charge*

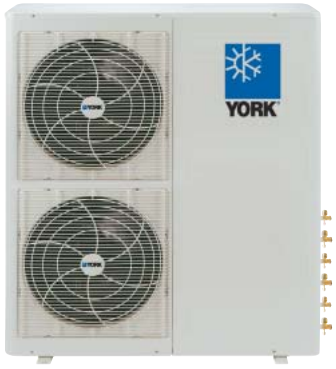
### Accessories

| Sizes | **07F** | **09F** | **12F** | **18F** | **24F** | **30F** |
|---|---|---|---|---|---|---|
| | | | | | | |
| "Pure Aire" Filter | ABF01M | | | | | |
| Ionizer (sizes 09 and 12) | - | AIN01M | | - | | |
| Condensate pump | AMP01B | | | | | AMP02A |
| Wall mounting kit | AMW42A | | | | | |
| Floor mounting kit | AMF44B | | | | | |

# Split Systems High wall Multi split

**New !**

**HMHB 18-21**

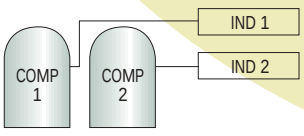


**HMHB 27-30**

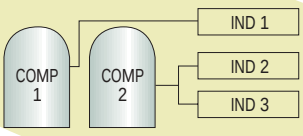
**CONDENSING UNIT :**

- Two independant circuits / 2 compressors
- Low ground space requirements
- Heat pump configuration only

2 COMPRESSOR DUAL SPLIT




2 COMPRESSOR TRIPLE SPLIT




**INDOOR UNITS :**

- Automatic restart
- Active carbon Electrostatic filter
- Clock function
- Automatic air sweep
- Service valve protective cover
- Rustproof casing
- Remote Controller
  - Wireless
  - 5 operations modes (Cool/Heat/Auto/Dry/Fan)
  - Sleep mode
  - Room temperature setting
  - Fan speed selection
  - Timer
  - Air flow direction setting
  - LCD display

CE EUROVENT CERTIFIED PERFORMANCE **R407C**



YORK®

# Split Systems High wall Multi split

## HMHB 18 to 30

### Table of compatibility with indoor units

| | # 9 | # 12 |
|---|---|---|
| **HMHB 18** | 2 | - |
| **HMHB 21** | 1 | 1 |
| **HMHB 27** | 3 | - |
| **HMHB 30** | 2 | 1 |

### Technical features

| Set reference | | HMHB | | | |
|---|---|---|---|---|---|
| **Models** | Sizes | **18** | **21** | **27** | **30** |
| Cooling capacity | kW | 2 x 2,6 | 2,6 + 3,5 | 3 x 2,6 | 2 x 2,6 + 3,5 |
| Heating capacity | kW | 2 x 2,9 | 2,9 + 3,8 | 3 x 2,9 | 2 x 2,9 + 3,8 |
| Compressor | Type (Nb) | Rotary (2) | | | |
| Refrigerant | | R407C | | | |
| Expansion device type | | Capillary | | | |
| Location of expansion device | | Outdoor unit | | | |
| Power supply | V/Ph/Hz | 230 / 1 / 50 + E | | | |
| Power input (Cooling) | kW | 2 x 1.0 | 1.0 + 1.3 | 3 x 1.05 | 2 x 1.0 + 1.3 |
| Power input (Heating) | kW | 2 x 1.0 | 1.0 + 1.3 | 3 x 1.0 | 2 x 0.95 + 1.25 |
| EER / COP | w/w | 2.6 / 2.9 | 2.6 / 2.8 | 2.6 / 2.9 | 2.8 / 3.2 |
| Indoor airflow (high speed) | $m^3/h$ | 2 x 550 | 2 x 550 | 3 x 550 | 3 x 550 |
| Noise level at 1 m (indoor unit) L/M/H | dB(A) | 31 / 35 / 38 | 31 / 35 / 38 | 31 / 35 / 38 | 31 / 35 / 38 |
| Noise level at 1 m (outdoor unit) | dB(A) | 55 | 55 | 57 | 57 |
| Dimensions (Indoor / Outdoor) | H (mm) | 250 / 655 | 250 / 655 | 250 / 830 | 250 / 830 |
| | W (mm) | 750 / 895 | 750 / 895 | 750 / 860 | 750 / 860 |
| | D (mm) | 188 / 345 | 188 / 345 | 188 / 330 | 188 / 330 |
| Net Weight (Indoor / Outdoor) | kgs | 8.5 x 2 / 59 | 8.5 x 2 / 61 | 8.5 x 3 / 81 | 8.5 x 3 / 81 |
| Piping — Type of connection | | Flared | | | |
| Piping — Diameter | Gas | 2 x 3/8" | 3/8" + 1/2" | 3 x 3/8" | 2 x 3/8" + 1/2" |
| | Liquid | 2 x 1/4" | 1/4" + 1/4" | 3 x 1/4" | 3 x 1/4" |
| Operating limits - cooling mode | mini/maxi | +15°C / +43°C | | | |
| Operating limits - heating mode | mini/maxi | -7°C / +24°C | | | |

*Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB*
*Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB*
*Piping length : 5m with initial charge*

### Accessories

| Sizes | **18** | **21** | **27** | **30** |
|---|---|---|---|---|
| "Pure Aire" Filter | ABF01M | | | |
| Condensate pump | AMP01B | | | |
| Wall mounting kit | AMW42A | | | |
| Floor mounting kit | AMF44B | | | |

# Split Systems High wall “PR2”

- Wireless/Wired Control
- Dry Mode
- Sleep mode
- Timer
- Auto sweep
- Auto restart

**MHC-MHH 07 to 35**

MOC-MOH 07 -12

MOC-MOH 18-25

- Automatic restart
- Add-on condensate pump
- Clock function
- Automatic air sweep
- Remote Controller

- Wireless or wired version available
- 5 operations modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- Filter dirty indicator timer
- LCD display
- Indoor PCB LED Diagnostic Function

CE EUROVENT CERTIFIED PERFORMANCE **R407C**

MOC-MOH 35

## Outdoor units options :

See detail page 34 and 36

Centrifugal Fan

Dual Split



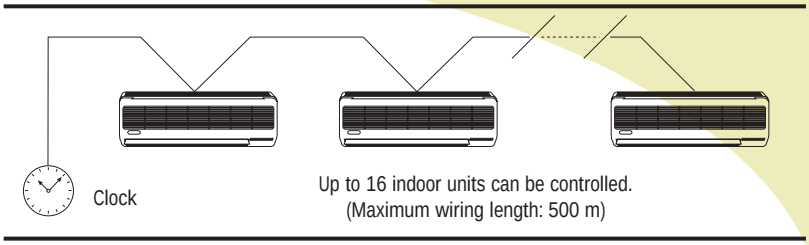
YORK®

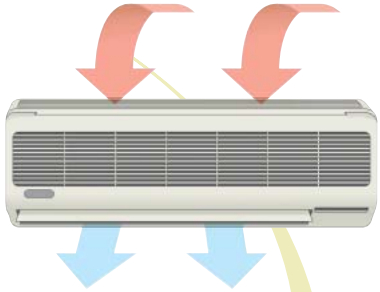
R407C

# Split Systems High wall "PR2"

## MHC-MHH 07 to 35

**Remote start/stop**



**Technical features**

| | | | MHC - MHH | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Models** | | Sizes | **07P** | **09P** | **12P** | **18P** | **25P** | **35P** |
| Cooling capacity | | kW | 2,0 | 2,2 | 3,0 | 4,4 | 5,9 | 8,4 |
| Heating capacity | | kW | 2,1 | 2,5 | 3,5 | 4,6 | 6,0 | 8,7 |
| Compressor | | Type | Rotary | | | | | Scroll |
| Refrigerant | | | R407C | | | | | |
| Power supply | | V/Ph/Hz | 230 / 1 / 50 + E | | | | | 400/3/50+E+N |
| Power input | | kW | 0.77 | 0.89 | 1.25 | 1.68 | 2.4 | 3.2 |
| Indoor airflow (high speed) | | $m^3/h$ | 360 | 380 | 430 | 670 | 700 | 1 300 |
| Noise level at 1 m Indoor unit | | dB(A) | 32/35/37 | 33/36/38 | 38/39/41 | 41/43/45 | 44/46/49 | 46/48/51 |
| Noise level at 2.5 m Outdoor unit | | dB(A) | 44 | 45 | 46 | 49 | 52 | 58 |
| Dimensions | Ind./Outd. | H (mm) | 290 / 492 | 290 / 492 | 290 / 492 | 315 / 590 | 315 / 696 | 356 / 900 |
| | | W (mm) | 799 / 764 | 799 / 764 | 799 / 764 | 1 019 / 820 | 1 019 / 850 | 1 156 / 1 060 |
| | | D (mm) | 181 / 230 | 181 / 230 | 181 / 230 | 180 / 280 | 180 / 287 | 203 / 345 |
| Net weight | Indoor unit | kg | 8 | 8 | 8 | 12 | 12 | 23 |
| | Outdoor unit | kg | 34 | 40 | 43 | 63 | 69 | 108 |
| Piping | Type of connection | | Flare | | | | | |
| | Diameter | Gas | 3/8" | 3/8" | 1/2" | 5/8" | 5/8" | 5/8" |
| | | Liquid | 1/4" | 1/4" | 1/4" | 3/8" | 3/8" | 3/8" |
| Operating limits - cooling mode | | mini / maxi | +19ºC (0ºC with low temperature kit (accessory) / +46ºC | | | | | |
| Operating limits - heating mode | | mini / maxi | -10ºC / +24ºC | | | | | |

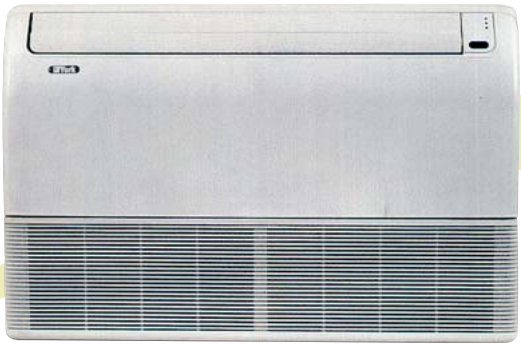
*Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB*
*Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB*
*Piping length : 5m with initial charge*

**Accessories**

| Sizes | **07** | **09** | **12** | **18** | **25** | **35** |
|---|---|---|---|---|---|---|
| Wired control (8 m cable) cooling | AMR01P | | | | | |
| Wired control (8 m cable) heat pump | AMR02P | | | | | |
| Condensate pump | AMP01B | | | | | AMP02A |
| Electrostatic filter | AMA01N | | | AMA02N | | |
| PCB link | 625T300012-000 | | | | | |
| Wall mounting kit | AMW42A | | | AMW50A | | |
| Floor mounting kit | AMF44B | | | | | |

# Split Systems Convertible console

- Wireless/Wired Control
- Dry Mode
- Sleep mode
- Timer
- Auto sweep
- Auto restart
- Thin profile
- Floor / Ceiling



**MCC-MCH 09 to 25**

- Convertible - floor or ceiling
- Air sweep
- Wide angle air distribution
- Slim profile - flush mounting
- Remote Controller
  - Wireless or wired version available
  - 5 operations modes (Cool/Heat/Auto/Dry/Fan)
  - Sleep mode
  - Room temperature setting
  - Fan speed selection
  - Timer
  - Filter dirty indicator timer
  - LCD display
  - Indoor PCB LED Diagnostic Function

MOC-MOH 09 -12

MOC-MOH 18-25

CE EUROVENT CERTIFIED PERFORMANCE **R407C**

## Outdoor units options :

See detail page 34 and 36

Centrifugal Fan

Dual Split



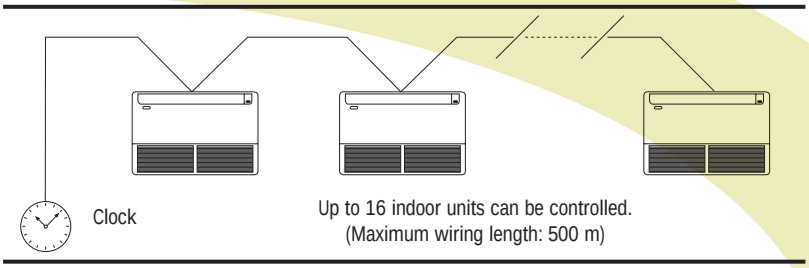
YORK®

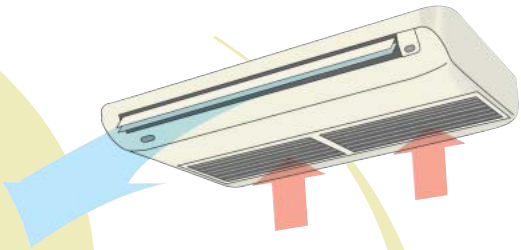
R407C

# Split Systems Convertible Console

## MCC-MCH 09 to 25

**Remote start/stop**



**Technical features**

| | | | MCC-MCH | | | |
|---|---|---|---|---|---|---|
| **Models** | | Sizes | **09P** | **12P** | **18P** | **25P** |
| Cooling capacity | | kW | 2,4 | 3,4 | 4,7 | 6,2 |
| Heating capacity | | kW | 2,5 | 3,5 | 4,9 | 6,3 |
| Compressor | | Type | Rotary | | | |
| Refrigerant | | | R407C | | | |
| Power Consumption | | kW | 0,9 | 1,25 | 1,68 | 2,4 |
| Power supply | | V/Ph/Hz | 230 / 1 / 50 + E | | | |
| Indoor Air Flow (high speed) | | $m^3/h$ | 490 | 580 | 700 | 820 |
| Noise Level in dB(A) at 2.5 m | | indoor unit | 28 / 32 / 36 | 29 / 33 / 37 | 34 / 38 / 42 | 37 / 42 / 46 |
| | | outdoor unit | 45 | 46 | 49 | 52 |
| Dimensions Indoor H / W / D | | (mm) | 655 / 990 / 199 | 655 / 990 / 199 | 655 / 990 / 199 | 655 / 990 / 199 |
| Dimensions Outdoor H / W / D | | (mm) | 492 / 764 / 230 | 492 / 764 / 230 | 590 / 820 / 280 | 696 / 850 / 287 |
| Net Weight Indoor / Outdoor | | kgs | 26 / 40 | 26 / 43 | 27 / 63 | 29 / 69 |
| Piping | | Connection Type | Flare | | | |
| | Size | Suction / Liquid | 3/8" / 1/4" | 1/2" / 1/4" | 5/8" / 3/8" | 5/8" / 3/8" |
| Operating limits - cooling mode | | mini / maxi | +19ºC (0ºC with low temperature kit (accessory) / +46ºC | | | |
| Operating limits - heating mode | | mini / maxi | -10ºC / +24ºC | | | |

*Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB*
*Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB*
*Piping length : 5m with initial charge*

**Accessories**

| Sizes | **09** | **12** | **18** | **25** |
|---|---|---|---|---|
| Wired control (8 m cable) cooling | AMR01P | | | |
| Wired control (8 m cable) heat pump | AMR02P | | | |
| Condensate pump | AMP01B | | | |
| PCB link | 625T300012-000 | | | |
| Wall mounting kit | AMW42A | | AMW50A | |
| Floor mounting kit | AMF44B | | | |
| Low ambient kit for MOC | 625T20003-000 | | | |
| Low ambient kit for MOH | 625T20003-000 + 024T05052-000 | | | |

# Split Systems Convertible console

- Wireless/Wired Control
- Dry Mode
- Sleep mode
- Timer
- Auto restart
- Thin profile

**MCC-MCH 35 to 55**

- Convertible - floor or ceiling
- Motorised damper (sizes 35 and 45)
- Wide angle air distribution
- Remote Controller
  - Wireless or wired version available
  - 5 operations modes (Cool/Heat/Auto/Dry/Fan)
  - Sleep mode
  - Room temperature setting
  - Fan speed selection
  - Timer
  - Filter dirty indicator timer
  - LCD display
  - Indoor PCB LED Diagnostic Function

MOC-MOH 35

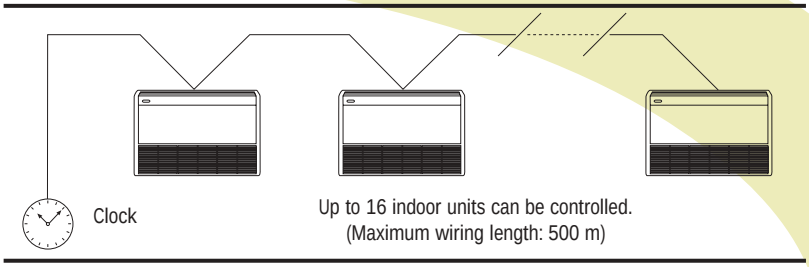
MOC-MOH 45 - 55

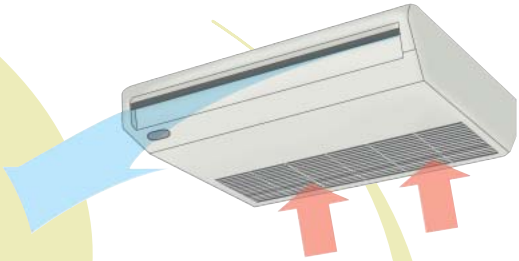
R407C

# Split Systems Convertible Console

## MCC-MCH 35 to 55

**Remote start/stop**



**Technical features**

| | | | MCC-MCH | | |
|---|---|---|---|---|---|
| **Models** | | Sizes | **35** | **45** | **55** |
| Cooling capacity | | kW | 8,6 | 12,0 | 13,8 |
| Heating capacity | | kW | 8,7 | 12,2 | 13,9 |
| Compressor | | Type | Scroll | | |
| Refrigerant | | | R407C | | |
| Power input | | kW | 3,2 | 4,6 | 5,2 |
| Power supply | | V/Ph/Hz | 400 / 3 / 50 + E + N | | |
| Indoor Air Flow (high speed) | | $m^3/h$ | 1 270 | 1 550 | 2 455 |
| Noise Level in dB(A) at 2.5 m | | indoor unit | 45 / 49 / 51 | 48 / 53 / 55 | 49 / 54 / 57 |
| | | outdoor unit | 58 | 59 | 60 |
| Dimensions Indoor H / W / D | | (mm) | 658 / 1 548 / 205 | 658 / 1 548 / 205 | 658 / 1 845 / 240 |
| Dimensions Outdoor H / W / D | | (mm) | 900 / 1 060 / 345 | 1 142 / 1 060 / 345 | 1 142 / 1 060 / 345 |
| Net Weight Indoor / Outdoor | | kgs | 47 / 108 | 47 / 122 | 62 / 127 |
| Piping | | Connection Type | Flare | | |
| | Size | Gas / Liquid | 5/8" / 3/8" | 3/4" / 3/8" | 3/4" / 3/8" |
| Operating limits - cooling mode | | mini / maxi | +19ºC (0ºC with low temperature kit (accessory) / +46ºC | | |
| Operating limits - heating mode | | mini / maxi | -10ºC / +24ºC | | |

*Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB*
*Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB*
*Piping length : 5m with initial charge*

**Accessories**

| Sizes | **35** | **45** | **55** |
|---|---|---|---|
| Wired control (8 m cable) cooling | AMR01P | | |
| Wired control (8 m cable) heat pump | AMR02P | | |
| Condensate pump | AMP02A | | |
| PCB link | 625T300012-000 | | |
| Wall mounting kit | AMW50A | | |
| Floor mounting kit | AMF44B | | |
| Low ambient kit for MOC | 625T20003-000 | | |
| Low ambient kit for MOH | 625T20003-000 + 024T05052-000 | | |

# Split Systems Cassette

- Low profile
- Turbo fan
- Air filter
- 4 way air flow

**MKC-MKH 12 to 24**

- 600 x 600 mm
- Auto restart
- Fresh air intake
- Discharge into adjacent room
- Remote Controller
  - Wireless
  - 5 operations modes (Cool/Heat/Auto/Dry/Fan)
  - Sleep mode
  - Room temperature setting
  - Fan speed selection
  - Timer
  - LCD display

MOC-MOH 12-18

MOC-MOH 25

R407C

## Outdoor units options :

See detail page 34 and 36

Centrifugal Fan

Dual Split

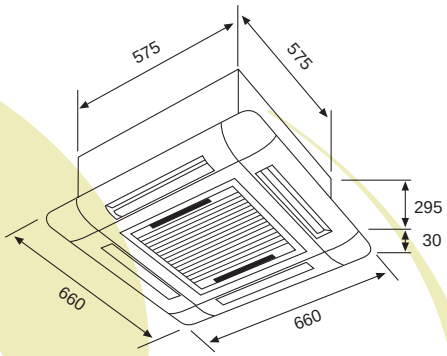


YORK®

R407C

# Split Systems Cassette

## MKC-MKH 12 to 24




**Technical features**

| | | | MKC - MKH | | |
|---|---|---|---|---|---|
| **Models** | | Sizes | **12S** | **18S** | **24S** |
| Cooling capacity | | kW | 3,3 | 5,0 | 6,2 |
| Heating capacity | | kW | 3,5 | 5,0 | 6,3 |
| Compressor | | Type | Rotary | | |
| Refrigerant | | | R407C | | |
| Power supply | | V/Ph/Hz | 230 / 1 / 50 + E | | |
| Power input | | kW | 1,2 | 1,6 | 2,6 |
| Indoor airflow H / M / L | | $m^3/h$ | 750 / 640 / 540 | 870 / 750 / 650 | 900 / 810 / 710 |
| Noise level at 2.5 m | Indoor | dB(A) | 28 / 33 / 36 | 35 / 40 / 42 | 39 / 43 / 45 |
| | Outdoor | dB(A) | 46 | 49 | 52 |
| Dimensions | Ind./Outd. | H (mm) | 295/492 | 295/590 | 295/696 |
| | | W (mm) | 575/764 | 575/820 | 575/850 |
| | | D (mm) | 575/230 | 575/280 | 575/287 |
| Net weight | Indoor unit | kg | 20 | 22 | 24 |
| | Outdoor unit | kg | 43 | 63 | 69 |
| Piping | Type of connection | | Flare | | |
| | Diameter | Gas | 1/2" | 5/8" | 5/8" |
| | | Liquid | 1/4" | 3/8" | 3/8" |
| Operating limits - cooling mode | | mini / maxi | +19ºC (0ºC with low temperature kit (accessory) / +46ºC | | |
| Operating limits - heating mode | | mini / maxi | -10ºC / +24ºC | | |

*Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB*
*Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB*
*Piping length : 5m with initial charge*

**Accessories**

| Sizes | **12** | **18** | **24** |
|---|---|---|---|
| Electric heater 2kW | AKR01A | | |
| Wall mounting kit | AMW42A | AMW50A | |
| Floor mounting kit | AMF44B | | |
| Low ambient kit for MOC | 625T20003-000 | | |
| Low ambient kit for MOH | 625T20003-000 + 024T05052-000 | | |

# Split Systems Cassette

- Wireless/Wired Control
- Low profile
- Turbo fan
- Air filter
- 4 way air flow

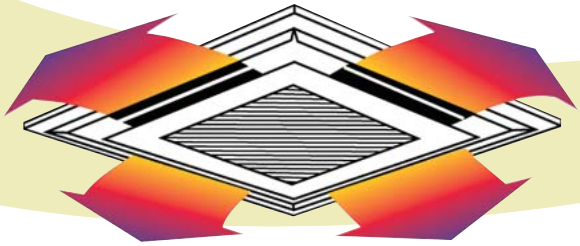
**MKC-MKH 34 to 54**

- Automatic restart
- Air sweep
- Fresh air intake
- Discharge into adjacent room
- Remote Controller
  - Wireless or wired version available
  - 5 operations modes (Cool/Heat/Auto/Dry/Fan)
  - Sleep mode
  - Room temperature setting
  - Fan speed selection
  - Timer
  - Filter dirty indicator timer
  - LCD display
  - Indoor PCB LED Diagnostic Function

MOC-MOH 35

MOC-MOH 45 - 55

R407C



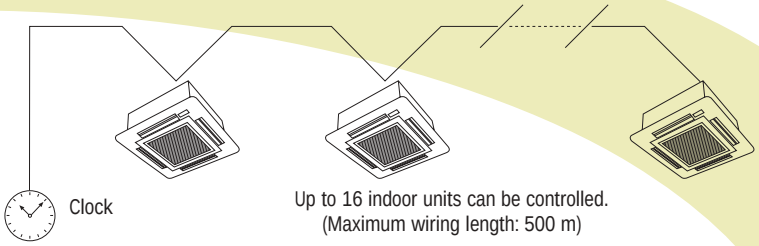


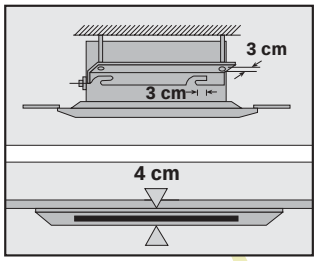
YORK®

# Split Systems Cassette

## MKC-MKH 34 to 54

**Remote start/stop**




**Technical features**

| | | | MKC - MKH | | |
|---|---|---|---|---|---|
| **Models** | | Sizes | **34P** | **44P** | **54P** |
| Cooling capacity | | kW | 8,1 | 12,0 | 13,8 |
| Heating capacity | | kW | 8,3 | 12,2 | 13,9 |
| Compressor | | Type | Scroll | | |
| Refrigerant | | | R407C | | |
| Power supply | | V/Ph/Hz | 400 / 3 / 50 + E + N | | |
| Power input | | kW | 3,6 | 4,9 | 5,3 |
| Indoor airflow (high speed) | | $m^3/h$ | 1 360 | 1 630 | 1 740 |
| Noise level at 2.5 m | Indoor | dB(A) | 42 / 44 / 47 | 43 / 46 / 49 | 44 / 47 / 51 |
| | Outdoor | dB(A) | 58 | 59 | 60 |
| Dimensions | Ind./Outd. | H (mm) | 350 / 900 | 350 / 1142 | 350 / 1142 |
| | | W (mm) | 836,5 / 1 060 | 836,5 / 1 060 | 836,5 / 1 060 |
| | | D (mm) | 827,5 / 345 | 827,5 / 345 | 827,5 / 345 |
| | Pannel | W (mm) x D (mm) | 950 x 950 | | |
| Net weight | Indoor unit | kg | 60 | 60 | 60 |
| | Outdoor unit | kg | 108 | 122 | 127 |
| Piping | Type of connection | | Flare | | |
| | Diameter | Gas | 5/8" | 3/4" | 3/4" |
| | | Liquid | 3/8" | 3/8" | 3/8" |
| Operating limits - cooling mode | | mini / maxi | +19ºC (0ºC with low temperature kit (accessory) / +46ºC | | |
| Operating limits - heating mode | | mini / maxi | -10ºC / +24ºC | | |

*Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB*
*Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB*
*Piping length : 5m with initial charge*

**Accessories**

| Sizes | **34P** | **44P** | **54P** |
|---|---|---|---|
| | | | |
| Wired control (8 m cable) cooling | AMR01P | | |
| Wired control (8 m cable) heat pump | AMR02P | | |
| PCB link | 625T300012-000 | | |
| Wall mounting kit | AMW50A | | |
| Floor mounting kit | AMF44B | | |
| Low ambient kit for MOC | 625T20003-000 | | |
| Low ambient kit for MOH | 625T20003-000 + 024T05052-000 | | |

# Split Systems Blower

Wired Control

Ducted installation

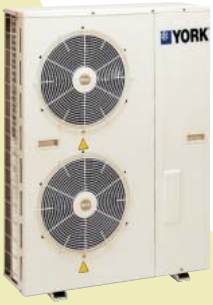
Quiet

**MAC-MAH 18 to 55**

MOC-MOH 18

- Low headroom requirement
- Quiet operation
- Accessibility
- External static pressure available
- Wired control
  - 5 operations modes (Cool/Heat/Auto/Dry/Fan)
  - Sleep mode
  - Room temperature setting
  - Fan speed selection
  - Timer
  - Filter dirty indicator timer
  - LCD display
  - Indoor unit LED Diagnostic Function

MOC-MOH 25-35



MOC-MOH 45-55

CE EUROVENT CERTIFIED PERFORMANCE **R407C**

## Outdoor units options :

See detail page 34 and 36

Centrifugal Fan

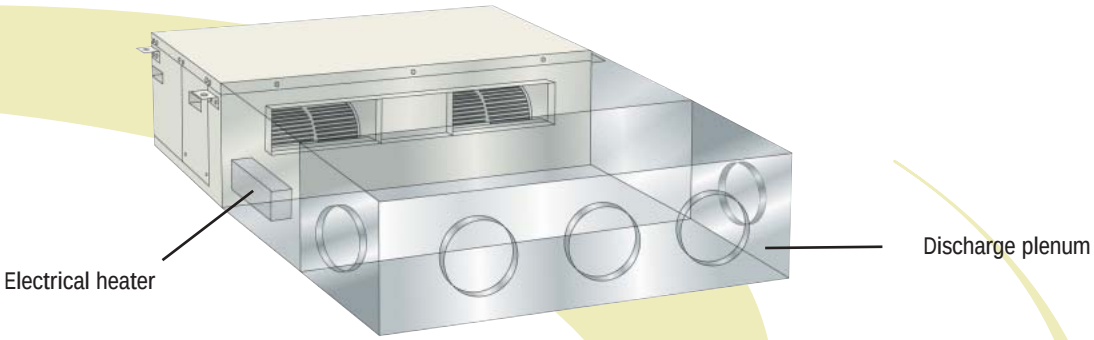
Dual Split



YORK®

# Split Systems Blower

## MAC-MAH 18 to 55




**Technical features**

| | | | MAC - MAH | | | | |
|---|---|---|---|---|---|---|---|
| **Models** | | Sizes | **18P** | **25P** | **35P** | **45P** | **55P** |
| Cooling capacity | | kW | 4,7 | 6,3 | 8,6 | 12,0 | 13,8 |
| Heating capacity | | kW | 5,0 | 6,5 | 8,7 | 12,2 | 13,9 |
| Compressor | | Type | Rotary | | Scroll | | |
| Refrigerant | | | R407C | | | | |
| Power supply | | V/Ph/Hz | 230 / 1 / 50 + E | | 400 / 3 / 50 + E + N | | |
| Power input | | kW | 1,6 | 2,3 | 3,2 | 4,6 | 5,2 |
| Indoor airflow (high speed) | | $m^3/h$ | 1 170 | 1 380 | 1 700 | 2 500 | 3 000 |
| Available static pressure* | | Pa | 60 | 50 | 55 | 110 | 90 |
| Noise level at 2.5 m | Indoor | dB(A) | 32 / 36 / 43 | 34 / 37 / 45 | 38 / 40 / 48 | 40 / 44 / 49 | 46 / 49 / 52 |
| | Outdoor | dB(A) | 49 | 52 | 58 | 59 | 60 |
| Operating controls | | | Wired | | | | |
| Dimensions | Ind./Outd. | H (mm) | 305 / 590 | 305 / 696 | 325 / 900 | 350 / 1 142 | 350 / 1 142 |
| | | W (mm) | 845 / 820 | 897 / 850 | 962 / 1 060 | 1 102 / 1 060 | 1 400 / 1 060 |
| | | D (mm) | 532 / 280 | 567 / 287 | 628 / 345 | 640 / 345 | 640 / 345 |
| Net weight | Indoor | kg | 32 | 51 | 53 | 66 | 88 |
| | Outdoor | kg | 63 | 69 | 108 | 122 | 127 |
| Piping | Type of connection | | Flare | | | | |
| | Diameter | Gas | 5/8" | 5/8" | 5/8" | 3/4" | 3/4" |
| | | Liquid | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" |
| Operating limits - cooling mode | | mini / maxi | +19ºC (0ºC with low temperature kit (accessory) / +46ºC | | | | |
| Operating limits - heating mode | | mini / maxi | -10ºC / +24ºC | | | | |

** High speed at 80% of maximum airflow*
*Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB*
*Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB*
*Piping length : 5m with initial charge*

**Accessories**

| Sizes | | **18P** | **25P** | **35P** | **45P** | **55P** |
|---|---|---|---|---|---|---|
| "New Square" wired remote control | | AMR03P | | | | |
| Condensate pump | | AMP01B | | AMP02A | | |
| PCB link | | 625T300012-000 | | | | |
| Wall mounting kit | | AMW50A | | | | |
| Floor mounting kit | | AMF44B | | | | |
| Low ambient kit for MOC | | 625T20003-000 | | | | |
| Low ambient kit for MOH | | 625T20003-000 + 024T05052-000 | | | | |
| Electric heater | kW | | | | | |
| Discharge plenum | | | | | | |

# Split Systems High Static Pressure Blower

Wired Control

Ducted installation

New !

MBC-MBH 25 to 65

MOC-MOH 25-35

- High external static pressure
- Ducted installation
- Accessibility
- Wired control
  - 5 operations modes (Cool/Heat/Auto/Dry/Fan)
  - Sleep mode
  - Room temperature setting
  - Fan speed selection
  - Timer
  - Filter dirty indicator timer
  - LCD display
  - Indoor unit LED Diagnostic Function

MOC-MOH 45-65

R407C

Outdoor units options :

See detail page 38

Dual Split

**ACCESSORIES :**

- Electric heater (MBH)
- Discharge plenum

# Split Systems High Static Pressure Blower

## MBC-MBH 25 to 65

### Technical features

| | | | MBC - MBH | | | | |
|---|---|---|---|---|---|---|---|
| **Models** | | Sizes | **25P** | **35P** | **45P** | **55P** | **65P** |
| Cooling capacity | | kW | 6.5 | 8.8 | 12.3 | 14.1 | 16.4 |
| Heating capacity | | kW | 6.5 | 8.7 | 12.2 | 13.9 | 16.3 |
| Compressor | | Type | Rotary | Scroll | | | |
| Refrigerant | | | R407C | | | | |
| Power supply | | V/Ph/Hz | 230 / 1 / 50 + E | 400 / 3 / 50 + E + N | | | |
| Power input | | kW | 2.7 | 3.7 | 4.9 | 5.8 | 6.8 |
| Indoor airflow | | m³/h | 2 160 | 2 900 | 3 200 | 3 600 | 3 800 |
| Available static pressure* | | Pa | 130 | 150 | 170 | 200 | 180 |
| Electric heater (in option for MBH) | | kW | 2.5 | | 4.5 | | |
| Operating controls | | | Wired | | | | |
| Dimensions | Ind./Outd. | H (mm) | 400 / 696 | 400 / 900 | 400 / 1 142 | 400 / 1 142 | 400 / 1 142 |
| | | W (mm) | 718 / 850 | 924 / 1 060 | 1 204 / 1 060 | 1 204 / 1 060 | 1 404 / 1 060 |
| | | D (mm) | 616 / 287 | 616 / 345 | 616 / 345 | 616 / 345 | 616 / 345 |
| Net weight | Indoor | kg | 39 | 44 | 50 | 52 | 60 |
| | Outdoor | kg | 69 | 108 | 122 | 127 | 130 |
| Piping | Type of connection | | Flare | | | | |
| | Diameter | Gas | 5/8" | 5/8" | 3/4" | 3/4" | 3/4" |
| | | Liquid | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" |
| Operating limits - cooling mode | | mini / maxi | +19ºC (0ºC with low temperature kit (accessory) / +46ºC | | | | |
| Operating limits - heating mode | | mini / maxi | -10ºC / +24ºC | | | | |

** High speed at 80% of maximum airflow*
*Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB*
*Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB*
*Piping length : 5m with initial charge*

### Accessories

| Sizes | **25P** | **35P** | **45P** | **55P** | **65P** |
|---|---|---|---|---|---|
| New Square wired remote control | AMR03P | | | | |
| Condensate pump | AMP01B | AMP02A | | | |
| PCB link | 625T300012-000 | | | | |
| Wall mounting kit | AMW50A | | | | |
| Floor mounting kit | AMF44B | | | | |
| Low ambient kit for MOC | 625T20003-000 | | | | |
| Low ambient kit for MOH | 625T20003-000 + 024T05052-000 | | | | |
| Electric heater | ABH05B | | ABH06B | | |
| Discharge plenum | ABP02A | ABP03A | ABP05A | | ABP06A |

# Split Systems DC Inverter High wall

- Wireless Control
- Dry Mode
- Sleep mode
- Timer
- Auto sweep
- Auto restart

New !

**HVHC 07-09**

**HVHC 12**

- High efficiency
- Strong heating at low ambient
- Automatic restart
- Active carbon Electrostatic filter
- Clock function
- Turbo mode
- Automatic air sweep
- Service valve protective cover
- Rustproof casing
- Remote Controller

  - Wireless
  - 5 operations modes (Cool/Heat/Auto/Dry/Fan)
  - Sleep mode
  - Room temperature setting
  - Fan speed selection
  - Timer
  - Air flow direction setting
  - LCD display

R410A

**ACCESSORIES :**

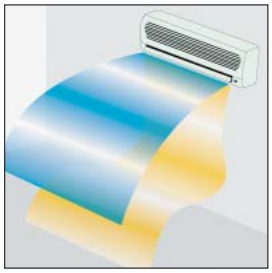
| | |
|---|---|
| - "Pure Aire" Filter | - Wall mounting kit |
| - Condensate pump | - Floor mounting kit |

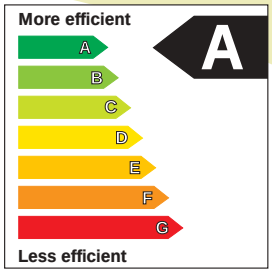
R410A

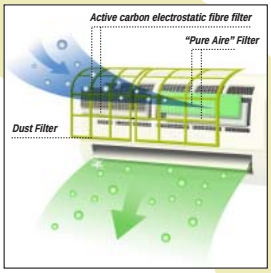
# Split Systems DC Inverter High wall

## HVHC 07 to 12

DC INVERTER





**Technical features**

| Set reference | | | HVHC | | |
|---|---|---|---|---|---|
| **Models** | Sizes | | **07D** | **09D** | **12D** |
| Cooling capacity | kW | | 2.1 (0.8 / 2.6) | 2.6 (1.0 / 3.2) | 3.5 (2.0 / 4.3) |
| Heating capacity | kW | | 2.3 (0.8 / 3.0) | 3.0 (1.0 / 4.1) | 4.1 (2.1 / 5.7) |
| Compressor | Type | | Rotary | | |
| Refrigerant | | | R410A | | |
| Power supply | V/Ph/Hz | | 230 / 1 / 50 + E | | |
| Power input (cooling) | kW | | 0.6 (0.21 / 0.91) | 0.8 (0.27 / 1.18) | 1.06 (0.54 / 1.59) |
| Power input (heating) | kW | | 0.64 (0.21 / 1.1) | 0.82 (0.27 / 1.85) | 1.11 (0.54 / 2.09) |
| EER / COP | w/w | | 3.4 / 3.7 | 3.3 / 3.7 | 3.3 / 3.7 |
| Indoor airflow (high speed) | $m^3/h$ | | 480 | 500 | 650 |
| Noise level at 1 m | Indoor | dB(A) | 30 / 33 / 36 | 31 / 34 / 37 | 34 / 37 / 40 |
| | Outdoor | dB(A) | 52 | 52 | 54 |
| Dimensions | Ind./Outd. | H (mm) | 250 / 590 | 250 / 590 | 280 / 590 |
| | | W (mm) | 750 / 760 | 750 / 760 | 750 / 760 |
| | | D (mm) | 188 / 285 | 188 / 285 | 195 / 285 |
| Net weight | Indoor unit | kg | 8.5 | 8.5 | 10.5 |
| | Outdoor unit | kg | 39 | 39 | 42 |
| Piping | Type of connection | | Flare | | |
| | Diameter | Gas | 3/8" | 3/8" | 1/2" |
| | | Liquid | 1/4" | 1/4" | 1/4" |
| Operating limit - cooling mode | temp. maxi. | | + 50ºC | | |
| Operating limit - heating mode | temp. mini. | | -15ºC | | |

*Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB*
*Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB*
*Piping length : 5m with initial charge*

**Accessories**

| Sizes | **07D** | **09D** | **12D** |
|---|---|---|---|
| "Pure Aire" Filter | ABF01M | | |
| Condensate pump | AMP01B | | |
| Wall mounting kit | AMW42A | | |
| Floor mounting kit | AMF44B | | |

# Split Systems High wall Multi Inverter

New !

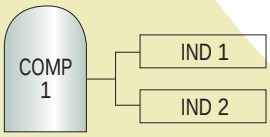
INVERTER

HRHB 18-21

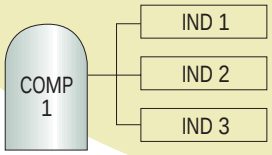
INVERTER

HRHB 27

HRHB 18-21




HRHB 27




- Strong heating at low ambient
- Automatic restart
- Active carbon Electrostatic filter
- Turbo mode
- Clock function
- Automatic air sweep
- Remote Controller
  - Wireless
  - 5 operations modes (Cool/Heat/Auto/Dry/Fan)
  - Sleep mode
  - Room temperature setting
  - Fan speed selection
  - Timer
  - Air flow direction setting
  - LCD display

CE EUROVENT CERTIFIED PERFORMANCE R407C



YORK®

R407C

# Split Systems High wall Multi Inverter

## HRHB 18 and 27

INVERTER

**Table of compatibility with indoor units**

| | # 9 | # 12 |
|---|---|---|
| **HRHB 18** | 2 | |
| **HRHB 21** | 1 | 1 |
| **HRHB 27** | 3 | |

**Technical features**

| Set reference | | HRHB | | |
|---|---|---|---|---|
| **Models** | Sizes | **18** | **21** | **27** |
| Cooling capacity | kW | 2 x 2.6 (0.8 / 2.9) | 2.6 + 3.5 (0.8 + 1.0 / 2.9 + 3.8) | 3 x 2.6 (0.8 / 2.9) |
| Heating capacity | kW | 2 x 3.0 (1.0 / 3.5) | 2.9 + 3.8 (1.0 + 1.2 / 3.2 + 4.1) | 3 x 2.9 |
| Indoor air flow (high speed) | $m^3/h$ | 500 x 2 | 500 x 2 | 500 x 2 |
| Compressor | Type (Nb) | Rotary (1) | | |
| Refrigerant | | R407C | | |
| Expansion device type | | Capillary | | |
| Location of expansion device | | Outdoor unit | | |
| Power supply | V/Ph/Hz | 230 / 1 / 50 + E | | |
| Power input (Cooling) | kW | 2.05 (0.57 / 2.35) | 2.36 (0.65 / 2.6) | 2.7 (0.8 / 3.0) |
| Power input (Heating) | kW | 2.2 (0.7 / 2.55) | 2.48 (0.79 / 2.75) | 2.83 (0.9 / 3.2) |
| EER / COP | w/w | 2.6 / 2.7 | 2.6 / 2.7 | 2.6 / 2.8 |
| Noise level at 1 m (indoor unit) L/M/H | dB(A) | 29 / 32 / 35 | 29 / 32 / 35 | 29 / 32 / 35 |
| Noise level at 1 m (outdoor unit) | dB(A) | 53 | 53 | 55 |
| Dimensions (Indoor / Outdoor) | H (mm) | 250 / 695 | 250 / 695 | 250 / 695 |
| | W (mm) | 750 / 845 | 750 / 845 | 750 / 845 |
| | D (mm) | 188 / 335 | 188 / 335 | 188 / 335 |
| Net Weight (Indoor / Outdoor) | kgs | 8.5 x 2 / 59 | 8.5 x 2 / 59 | 8.5 x 3 / 64 |
| Piping — Type of connection | | Flare | | |
| Piping — Diameter | Gas | 2 x 3/8" | 2 x 3/8" | 3 x 3/8" |
| | Liquid | 2 x 1/4" | 2 x 1/4" | 3 x 1/4" |
| Operating limit - cooling mode | temp. maxi. | + 50ºC | | |
| Operating limit - heating mode | temp. mini. | -15ºC | | |

*Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB*
*Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB*
*Piping length : 5m with initial charge*

**Accessories**

| Sizes | **18** | **21** | **27** |
|---|---|---|---|
| "Pure Aire" Filter * | ABF01M | | |
| Condensate pump | AMP01B | | |
| Wall mounting kit | AMW50A | | |
| Floor mounting kit | AMF44B | | |

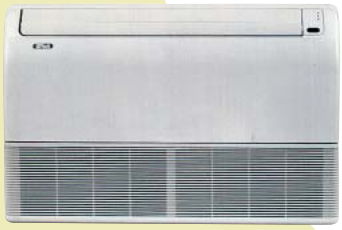
** Per indoor unit*

# Split Systems Centrifugal fan condensing unit

**MCOC-MCOH 09 to 18**

MHC-MHH 09-18

- Indoor installation
- External static pressure available
- Low Ambient Kit factory fitted
- Recommended for historic buildings



MCC-MCH 09-18

MKC-MKH 12-18

R407C



YORK®

# Split Systems Centrifugal fan

## MCOC-MCOH 09 to 18

**Table of compatibility with indoor units**

| | | | |
|---|---|---|---|
| **MCOC MCOH 09** | **NA** | **MCC-MCH 09** | **MHC-MHH 09** |
| **MCOC-MCOH 12** | **MKC-MKH 12** | **MCC-MCH 12** | **MHC-MHH 18** |
| **MCOC-MCOH 18** | **MKC-MKH 18** | **MCC-MCH 18** | **MHC-MHH 18** |

**Technical features**

| | | | MCOC-MCOH | | |
|---|---|---|---|---|---|
| **Models** | | Sizes | **09** | **12** | **18** |
| Cooling capacity | | kW | 2,4 | 3,2 | 5 |
| Heating capacity | | kW | 2,3 | 3,1 | 5 |
| Compressor | | Type | Rotary | | |
| Refrigerant | | | R407C | | |
| Expansion device type | | | Capillary | | |
| Location of expansion device | | | Outdoor unit | | |
| Power supply | | V/Ph/Hz | 230 / 1 / 50 + E | | |
| Power input | | kW | 0.85 | 1.2 | 1.9 |
| Nominal current | | A | 3.8 | 6.5 | 7.9 |
| Starting current | | A | 23 | 33 | 40 |
| Fuse (AM) | | A | 10 | 10 | 16 |
| Indoor Air Flow | | $m^3/h$ | 1 070 | 1 001 | 1 362 |
| Available static pressure | | Pa | 50 | 50 | 50 |
| Noise Level at 2.5 m | | dB(A) | 47 | 47 | 50 |
| Overall dimensions | | H (mm) | 370 | 370 | 420 |
| | | W (mm) | 800 | 800 | 800 |
| | | D (mm) | 500 | 500 | 500 |
| Net Weight | | kgs | 45 | 47.5 | 60 |
| Piping | Type of connection | | Flare | | |
| | Diameter | Gas | 3/8" | 1/2" | 5/8" |
| | | Liquid | 1/4" | 1/4" | 3/8" |
| Maximum piping length | | m | 15 | 18 | 18 |
| Refrigerant charge | | gr | 800 | 900 | 1 200 |
| Number of fans | | | 1 | 1 | 1 |
| Operating limits - cooling mode | | mini / maxi | 0ºC / +46ºC | | |
| Operating limits - heating mode | | mini / maxi | -10ºC / +24ºC | | |

*Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB*
*Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB*
*Piping length : 5m with initial charge*

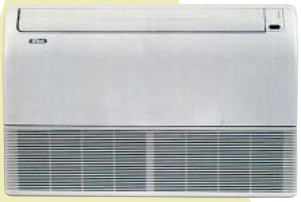
# Split Systems Dual split

**MMC-MMH 18-36 G**

**MMC-MMH 50 G**

MHC-MHH 9 to 25

- Two independant circuits
- Low ground space requirements
- Sound-proofed compressors
- LAK factory fitted for MMC-MMH 36 & 50



MCC-MCH 9 to 25

CE EUROVENT CERTIFIED PERFORMANCE **R407C**

MKC-MKH 12 to 24

MAC-MAH 18-25



YORK®

# Split Systems Dual split

## MMC-MMH 18 to 50

### Table of compatibility with indoor units

| | MHC-MHH | MCC-MCH | MKC-MKH | MAC-MAH |
|---|---|---|---|---|
| **MMC-MMH 18** | ● | ● | | |
| **MMC-MMH 21** | ● | ● | | |
| **MMC-MMH 25** | ● | ● | ● | |
| **MMC-MMH 36** | ● | ● | ● * | ● |
| **MMC-MMH 50** | ● | ● | ● * | ● |

** Cooling only*

### Technical features

| | | | MMC-MMH | | | | |
|---|---|---|---|---|---|---|---|
| **Models** | | Sizes | **18** | **21** | **25** | **36** | **50** |
| Cooling capacity | | kW | 2 x 2,4 | 2,4 + 3,4 | 2 x 3,4 | 2 x 4,7 | 2 x 6,3 |
| Heating capacity | | kW | 2 x 2,5 | 2,5 + 3,5 | 2 x 3,5 | 2 x 5,0 | 2 x 6,5 |
| Compressor | | Type (Nb) | Rotary (2) | | | | |
| Refrigerant | | | R407C | | | | |
| Expansion device type | | | Capillary | | | | |
| Location of expansion device | | | Outdoor unit | | | | |
| Power supply | | V/Ph/Hz | 230 / 1 / 50 + E | | | | |
| Power input | | kW | 2 x 0,9 | 0,9 + 1,2 | 2 x 1,2 | 2 x 1,6 | 2 x 2,4 |
| Noise Level at 2.5 m | | dB(A) | 58 | 58 | 58 | 60 | 65 |
| Dimensions | | H (mm) | 696 | 696 | 696 | 900 | 1 142 |
| | | W (mm) | 850 | 850 | 850 | 1 060 | 1 060 |
| | | D (mm) | 287 | 287 | 287 | 345 | 345 |
| Net Weight | | kgs | 61.5 | 64.5 | 66 | 130 | 165 |
| Piping | Type of connection | | Flare | | | | |
| | Diameter | Gas | 2 x 3/8" | 3/8" + 1/2" | 2 x 1/2" | 2 x 5/8" | 2 x 5/8" |
| | | Liquid | 2 x 1/4" | 1/4" + 1/4" | 2 x 1/4" | 2 x 3/8" | 2 x 3/8" |
| Operating limits - cooling mode | | mini/maxi | +19°C (-10°C with low temperature kit) / +46°C | | | | |
| Operating limits - heating mode | | mini/maxi | -10°C / +24°C | | | | |

*Nominal cooling capacity based on : - Indoor Air Temp. 27°C DB / 19°C WB - Outdoor Air Temp. 35°C DB*
*Nominal heating capacity based on : - Indoor Air Temp. 21°C DB - Outdoor Air Temp. 7°C DB/6°C WB*
*Piping length : 5m with initial charge*

### Accessories

| Sizes | **18** | **21** | **25** | **36** | **50** |
|---|---|---|---|---|---|
| Low ambient kit for MMC 18 to 25 | AML 05 A | | | Standard | |
| Low ambient kit for MMH 18 to 25 | - | | | Standard | |
| Floor mounting kit | AMF44B | | | | |
| Wall mounting kit | AMW50A | | | | |

YORK®

# Water System

CONFORME NORMAS ISO 9001
AENOR
ER-0028/1991

CONFORME NORMAS ISO 14001
AENOR
Gestión Ambiental
CGM-97/013

EUROVENT CERTIFIED PERFORMANCE

CE

New !

# Ecofrio 50-60
# HVS Compact
## YCCD (with option integrated hydro kit)
## YLCC ②

er System

Chiller and heat pump

Indoor units

# Water System

# Air cooled chiller
# Air to water heat pump

- R407C
- Single Scroll Compressor
- LWT and RWT Control
- Pack standard
- Buffer Tank
- Plate heat exchanger
- FSC standard (low ambient operation -10ºC)
- Option LAK (-18ºC)

YCSA 06-36

CASSETTES

ecofrío®
*The power in cooling*

A complete range from
6 kW up to 36 kW

CONSOLES

**Options / Accessories**

- Unit without pack
- Anti corrosion coated condenser fins
- Pressostatic LAK (-18ºC) (cooling only units)
- B.M.S. Communication
- Remote control
- Condenser grille
- Side outlet adapter (models 6 to 18)
- Water filter (unit without pack)

HIGH WALLS

FAN COIL UNITS

BLOWERS

Indoor units : see page 74



YORK®

# Water System YCSA
## 6 to 36 kW

### Technical data

| | | | YCSA / YCSA-H | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Models** | | | **6 M-MP** | **8 M-MP** | **8 T-TP** | **12 T-TP** | **18 T-TP** | **26 T-TP** | **36 T-TP** |
| Nominal cooling capacity for cooling only units | | kW | 5.92 | 7.74 | 7.91 | 11.9 | 17.2 | 25.7 | 35.7 |
| Compressor input for cooling only units | | A | 10 | 12.6 | 5.9 | 7.9 | 14.1 | 15.0 | 22.6 |
| Nominal cooling capacity for heat pump | | kW | 6.05 | 7.84 | 7.85 | 11.8 | 18.2 | 25.2 | 34.7 |
| Nominal heating capacity for heat pump | | kW | 6.1 | 8.4 | 8.4 | 12.5 | 19.6 | 27.1 | 33.5 |
| Compressor input in cooling for heat pump | | A | 9.7 | 13.4 | 6.4 | 7.9 | 14.3 | 14.8 | 25.2 |
| Compressor input in heating for heat pump | | A | 10.1 | 13.4 | 6.4 | 8.5 | 13.7 | 15.2 | 25.5 |
| Electrical supply | | V/ph | 230/1+E | 230/1+E | 400/3+N+E | 400/3+N+E | 400/3+N+E | 400/3+E | 400/3+E |
| Total fan input | | A | 0.66 | 0.66 | 0.66 | 1.32 | 1.32 | 2.2 | 3.4 |
| Unit water volume (2) | | Litres | 29 | 30 | 30 | 69 | 70 | 118 | 119 |
| Expansion tank volume (2) | | Litres | 2 | 2 | 2 | 5 | 5 | 8 | 8 |
| Pump static pressure for cooling only (1) (2) | | kPa | 58.3 | 55.5 | 54.8 | 132.9 | 102.3 | 87.0 | 94.4 |
| Pump static pressure in cooling for heat pump (1) (2) | | kPa | 52 | 43 | 43 | 125 | 102 | 98.8 | 100 |
| Pump static pressure in heating for heat pump (1) (2) | | kPa | 51 | 38 | 38 | 116 | 88.2 | 84.4 | 60.5 |
| Pump input (1) (2) | | A | 0.7 | 0.7 | 0.7 | 1.4 | 1.4 | 1.7 | 1.7 |
| Pressure drop for cooling only (1) (3) | | kPa | 10.4 | 10.9 | 11.4 | 38.7 | 34.2 | 51.6 | 54.4 |
| Pressure drop in cooling for heat pump (1) (3) | | kPa | 11.9 | 20.1 | 20.1 | 40.4 | 36.7 | 46.9 | 51.4 |
| Pressure drop in heating for heat pump (1) (3) | | kPa | 12.2 | 20.5 | 20.5 | 46.6 | 37.6 | 57.4 | 54.5 |
| Sound power level | | dB(A) | 70 | 71 | 71 | 73 | 74 | 78 | 81 |
| Sound pressure level | At 5 m | dB(A) | 44 | 45 | 45 | 47 | 48 | 51 | 54 |
| Sound pressure level | At 10 m | dB(A) | 40 | 41 | 41 | 43 | 44 | 48 | 51 |
| Weight for cooling only | Pack | kg | 125 | 130 | 130 | 185 | 220 | 390 | 400 |
| | Without Pack | kg | 105 | 110 | 110 | 150 | 185 | 330 | 340 |
| Weight for heat pump | Pack | kg | 135 | 140 | 140 | 200 | 235 | 430 | 440 |
| | Without Pack | kg | 115 | 120 | 120 | 165 | 200 | 370 | 380 |

**M** single phase **T** Three phases supply **P** Pack **H** Heat pump

*Cooling capacities in kW given for 7°C water leaving temperature Δt 5°C and 35°C ambient temperature*

*Heating capacities in kW given for 45°C water leaving temperature and 7°C ambient temperature*

*(1) at nominal conditions (2) version P with hydro kit (3) version without hydro kit*

### Compatibility table / Codes

| **Model** | **YCSA-06-MP** | **YCSA-08-MP** | **YCSA-08-TP** | **YCSA12-TP** | **YCSA-18-TP** | **YCSA-26-TP** | **YCSA-36-TP** |
|---|---|---|---|---|---|---|---|
| Cooling only unit (Pack included) | 668520682 | 668520882 | 668520884 | 668521282 | 668521882 | 668522582 | 668523482 |
| Heat pump unit (Pack included) | 668620682 | 668620882 | 668620884 | 668621282 | 668621882 | 668622682 | 668623682 |

### Options (Factory fitted)

| **Model** | **YCSA-06-M** | **YCSA-08-M** | **YCSA-08-T** | **YCSA12-T** | **YCSA-18-T** | **YCSA-26-T** | **YCSA-36-T** |
|---|---|---|---|---|---|---|---|
| Cooling only unit (without Pack) | 668520680 | 668520880 | 668520883 | 668521280 | 668521880 | 668522580 | 668523480 |
| Heat pump unit (without Pack) | 668620680 | 668620880 | 668620883 | 668621280 | 668621880 | 668622680 | 668623680 |
| Anti-corrosion coated condenser fins | 611080608 | | | 611081218 | | 611082626 | 611083636 |
| LAK -18ºC for cooling only unit | 613112011 | | | | | | |

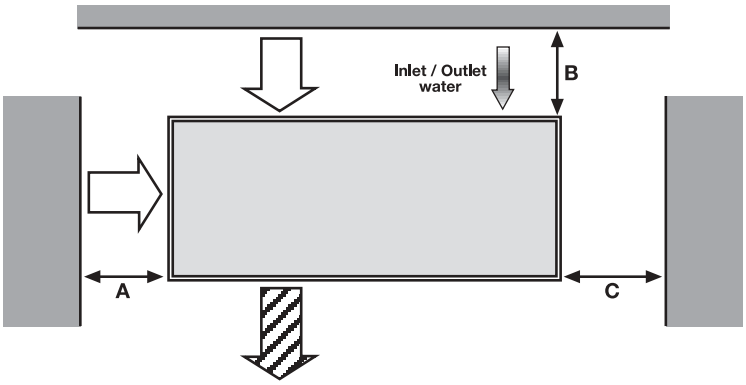
### Accessories (Supplied loose)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Condenser grille | 611090608 | | 611091218 | | | 611092636 | |
| Mechanical flow switch | 611992021 | | | | | | |
| Kit side adapters | 611992011 | | | | | N/A | |
| Water Filter * | 611300100 | | | 611300120 | | 611300150 | |
| Remote control | 613802011 | | | | | | |
| B.M.S. Communication | 613802021 | | | | | | |

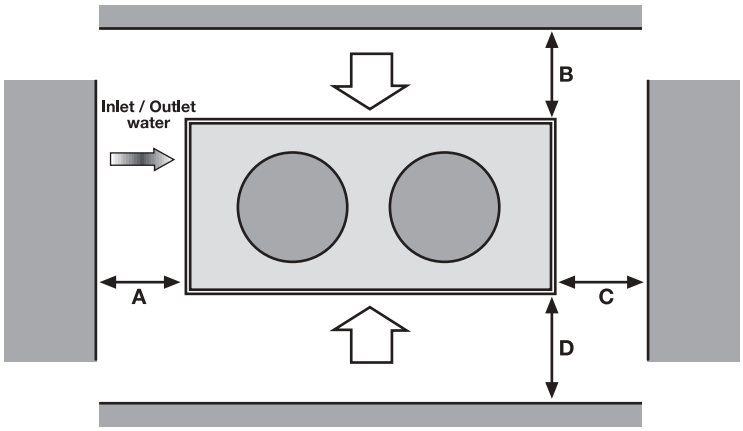
*included with unit version "P" only for unit without pack N/A Not available

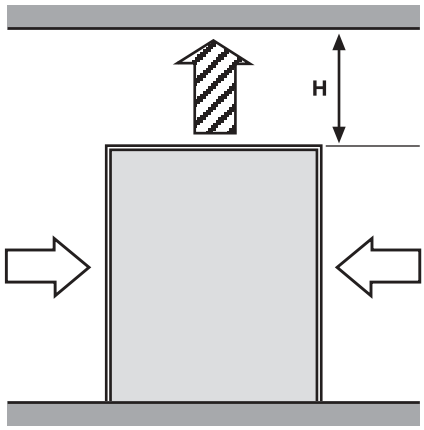
# Space requirements

## Model YCSA 06-08-12-18




## Model YCSA 26-36



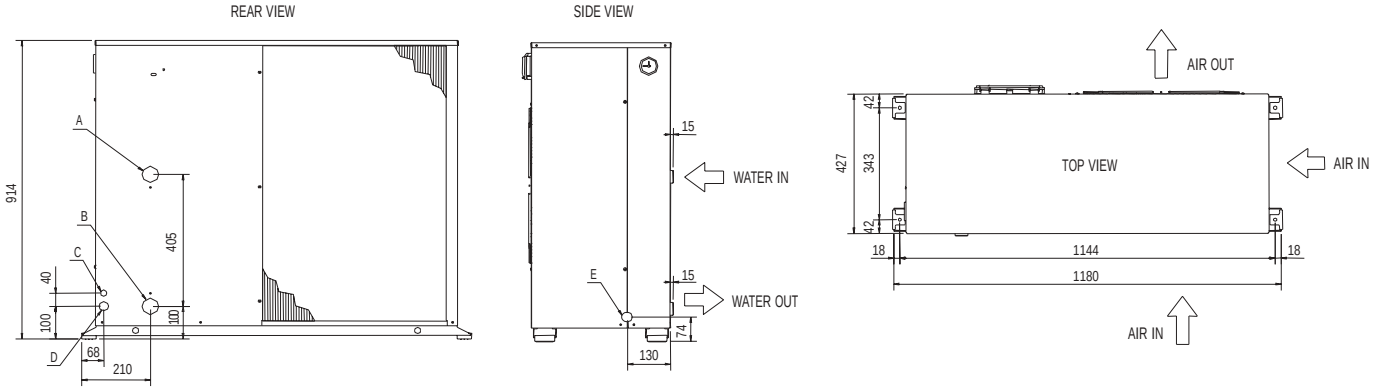

**Drawings not at scale**

| | YCSA 06 | YCSA 08 | YCSA 12 | YCSA 18 | YCSA 26 | YCSA 26P | YCSA 36 | YCSA 36P |
|---|---|---|---|---|---|---|---|---|
| A | 200 | 200 | 300 | 300 | 800 | 1600 | 800 | 1600 |
| B | 200 | 200 | 300 | 300 | 800 | 800 | 800 | 800 |
| C | 500 | 500 | 600 | 600 | 1000 | 1000 | 1000 | 1000 |
| D | | | | | 800 | 800 | 800 | 800 |
| H | | | | | 3000 | 3000 | 3000 | 3000 |

All dimensions in mm

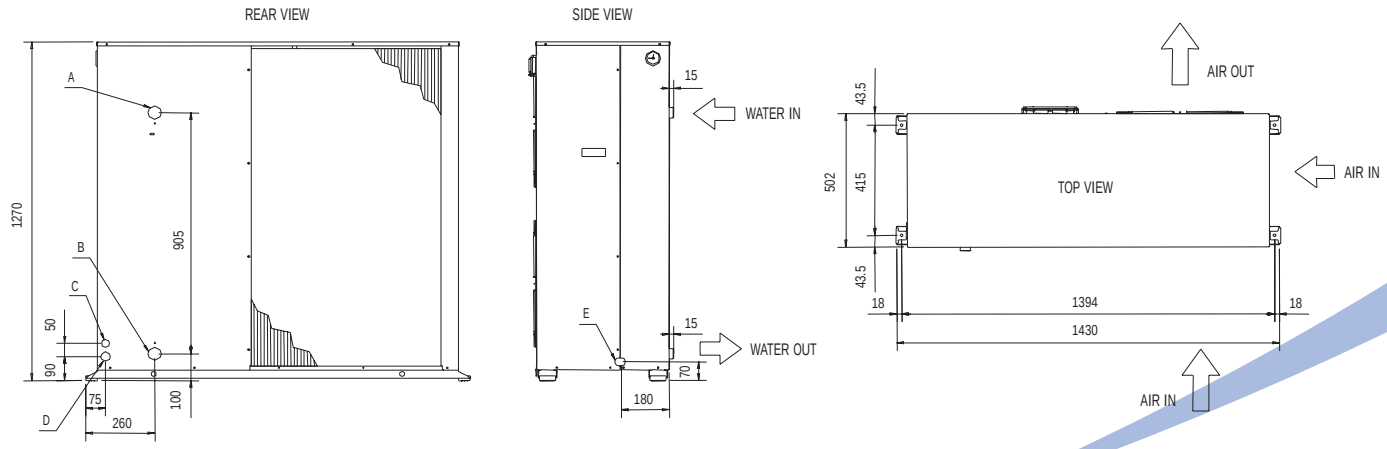
# Dimensions and hydraulic connections

## YCSA 6 M-MP / 8 M-MP / 8 T-TP




A - Water inlet Ø 1" Gas F.
B - Water outlet Ø 1" Gas F.
C - Auxiliary lines
D - Electrical power supply
E - Water refilling Ø 3/8" Gas F.

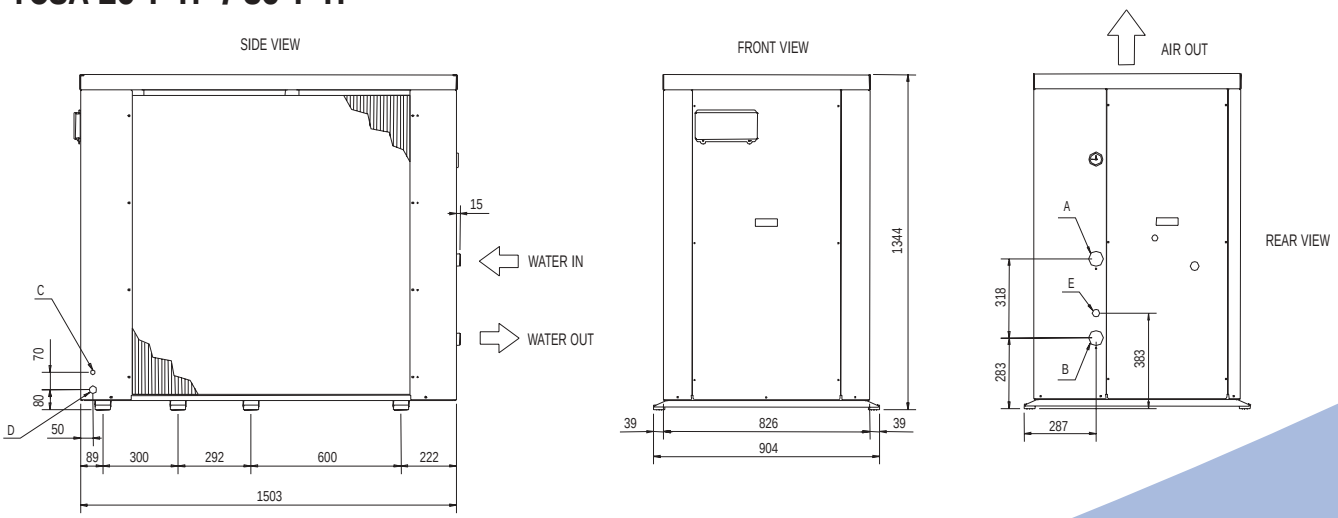
## YCSA 12 T-TP / 18 T-TP




A - Water inlet Ø 1" Gas F.
B - Water outlet Ø 1" Gas F.
C - Auxiliary lines
D - Electrical power supply
E - Water refilling Ø 3/8" Gas F.

Only for size 18: Adapters Ø 1 1/4" Gas M. supplied with the unit

## YCSA 26 T-TP / 36 T-TP




A - Water inlet Ø 1 1/4" Gas F.
B - Water outlet Ø 1 1/4" Gas F.
C - Auxiliary lines
D - Electrical power supply
E - Water refilling Ø 3/8" Gas F.

Only for size 36: Adapters Ø 1 1/4"-1 1/2" Gas M. supplied with the unit

# Water System

# Air cooled chiller
# Air to water heat pump

- R407C
- 2 Scroll Compressors
- RWT Control
- Pack standard
- Buffer Tank
- Plate heat exchanger
- FSC standard (low ambient operation -10ºC)
- Option LAK (-18ºC)

YCSA 50-60

CASSETTES

**New !**

**Soon available get more power in cooling**

ecofrío®
*The power in cooling*

Extension of the range with 49 kW and 61 kW

CONSOLES

**Options / Accessories**

- Unit without pack
- Anti corrosion coated condenser fins
- Pressostatic LAK (-18ºC) (cooling only units)
- B.M.S. Communication
- Remote control
- Remote terminal
- Condenser grille
- Water filter (unit without pack)

HIGH WALLS

FAN COIL UNITS

BLOWERS

Indoor units : see page 72



YORK®

# Water System YCSA
## 49 and 61 kW

### Technical data

| | | | YCSA / YCSA-H | |
|---|---|---|---|---|
| **Models** | | | **50 T-TP** | **60 T-TP** |
| Nominal cooling capacity for cooling only units | | kW | 49.2 | 61 |
| Compressor input for cooling only units | | A | 2 x 16.5 | 2 x 19.5 |
| Nominal cooling capacity for heat pump | | kW | 47 | 58 |
| Nominal heating capacity for heat pump | | kW | 55.6 | 69 |
| Compressor input in cooling for heat pump | | A | 2 x 17.7 | 2 x 21 |
| Compressor input in heating for heat pump | | A | 2 x 19 | 2 x 22 |
| Electrical supply | | V/ph/Hz | 400/3/50+E | 400/3/50+E |
| Total fan input | | A | 2 x 1.8 | 2 x 2 |
| Unit water volume (2) | | Litres | 179 | 181 |
| Expansion tank volume (2) | | Litres | 12 | 18 |
| Pump static pressure for cooling only (1) (2) | | kPa | 225 | 230 |
| Pump static pressure in cooling for heat pump (1) (2) | | kPa | 235 | 240 |
| Pump static pressure in heating for heat pump (1) (2) | | kPa | 194 | 200 |
| Pump input (1) (2) | | A | 2.9 | 3.8 |
| Pressure drop for cooling only (1) (3) | | kPa | 50 | 50 |
| Pressure drop in cooling for heat pump (1) (3) | | kPa | 45 | 45 |
| Pressure drop in heating for heat pump (1) (3) | | kPa | 60 | 60 |
| Sound power level | | dB(A) | 85 | 87 |
| Sound pressure level | At 5 m | dB(A) | 65.5 | 66 |
| Sound pressure level | At 10 m | dB(A) | 59.5 | 60 |
| Weight for cooling only | Pack | kg | 606 | 643 |
| | Without Pack | kg | 550 | 585 |
| Weight for heat pump | Pack | kg | 618 | 655 |
| | Without Pack | kg | 562 | 596 |

**M** single phase **T** Three phases supply **P** Pack **H** Heat pump

*Cooling capacities in kW given for 7°C water leaving temperature Δt 5ºC and 35°C ambient temperature*

*Heating capacities in kW given for 45°C water leaving temperature and 7°C ambient temperature*

*(1) at nominal conditions (2) version P with hydro kit (3) version without hydro kit*

### Compatibility table / Codes

| **Models** | **YCSA 50 TP** | **YCSA 60 TP** |
|---|---|---|
| Cooling only unit (Pack included) | 668524682 | 668526082 |
| Heat pump unit (Pack included) | 668624682 | 668626082 |

### Options (Factory fitted)

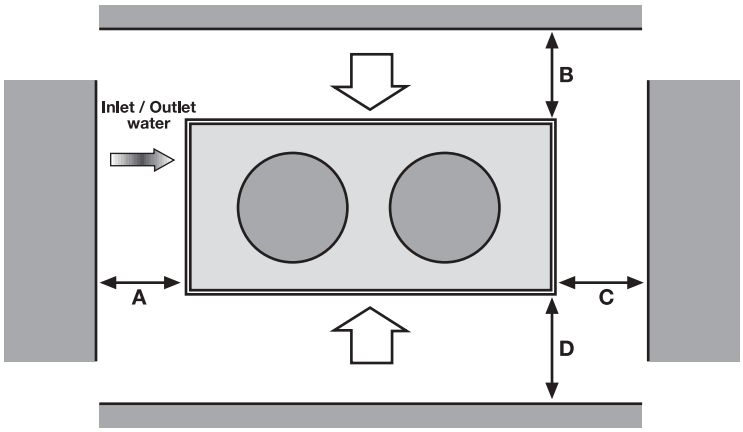
| **Models** | **YCSA 50 T** | **YCSA 60 T** |
|---|---|---|
| Cooling only unit (without Pack) | 668524680 | 668526080 |
| Heat pump unit (without Pack) | 668624680 | 668626080 |
| Anti-corrosion coated condenser fins | 611084646 | 611086060 |
| LAK -18ºC for cooling only unit | 613112080 | |

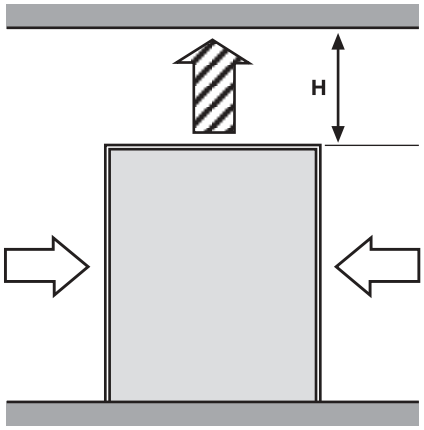
### Accessories (Supplied loose)

| | |
|---|---|
| Condenser grille | 611094660 |
| Mechanical flow switch | 611992021 |
| Water Filter (2") * | 611300170 |
| Remote control | 613802011 |
| Remote terminal | 613802221 |
| B.M.S. Communication | 613802031 |

*included with unit version "P" only for unit without pack

## Model YCSA 50-60



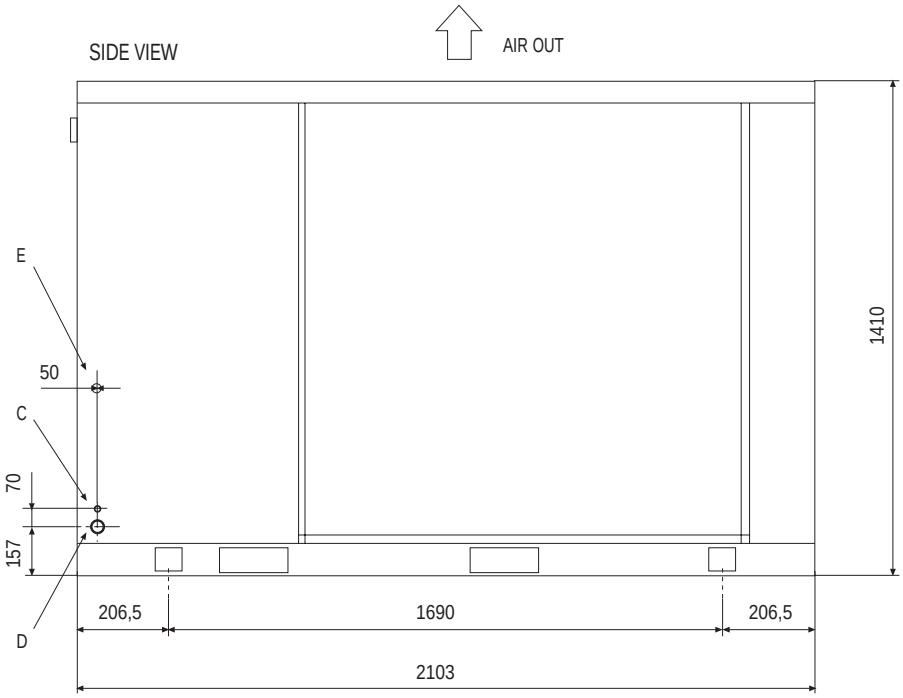

**Drawings not at scale**

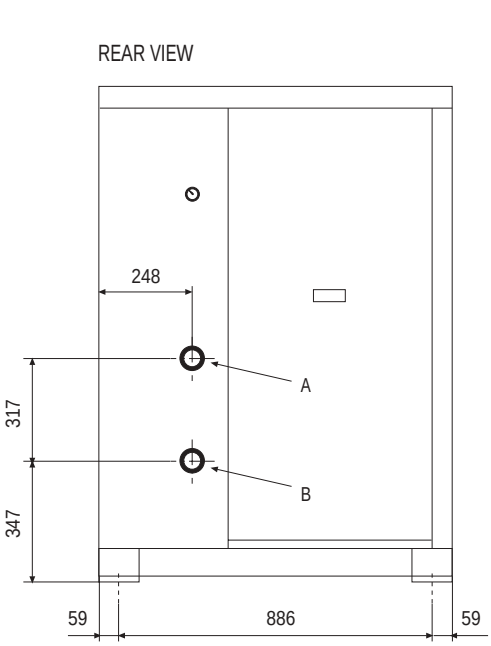
| | YCSA 50-60 | YCSA 50-60 P |
|---|---|---|
| A | 800 | 1600 |
| B | 800 | 800 |
| C | 1000 | 1000 |
| D | 800 | 800 |
| H | 3000 | 3000 |

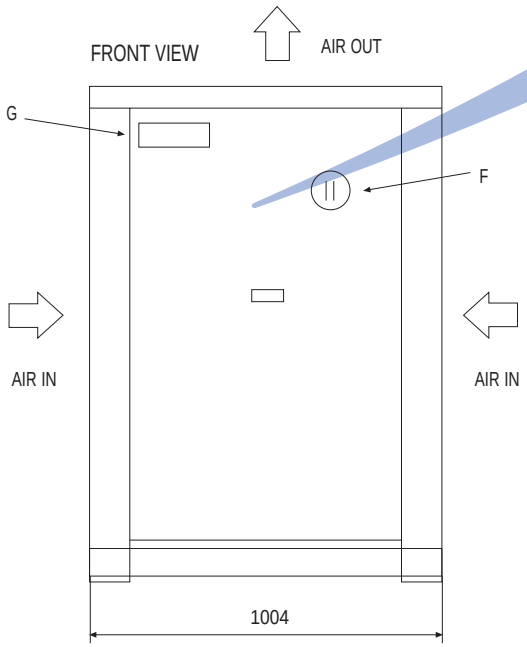
All dimensions in mm

# Dimensions and hydraulic connections

## Model YCSA 50-60




A - Water inlet Ø 2" GF

B - Water outlet Ø 2" GF

C - Auxiliary line Ø 23

D - Electrical power supply Ø 48

E - Water refilling

F - Main switch

G - Control

# Water System

# VSD Chiller & heat pump compact version

- Variable speed compressor (VSD) (18% to 100%)
- Constant water temperature
- Energy savings up to 40%
- BMS communication
- Easy selection software
- FSC standard (low ambient operation)
- Plate heat exchanger
- Integrated hydro kit

INVERTER

**YSC_551H**
**YOC_661H**

**YSC_931H**

hydro variable speed HVS
YORK INTERNATIONAL

CASSETTES

**New !**

A complete range from 16 kW up to 67 kW

**Save up to 40% on your running costs !**

CONSOLES

**Remote central controller:**

- LWT control
- Operation mode - cooling, heating (Heat pump and/or external heating system)
- Timer (weekly cycle), for whole system incl. Fan coils and ext. heating system
- Capacity limitation to reduce noise level at night
- Min. cycle time
- Automatic restart after power failure
- Hours run counter
- Water pump control
- Freeze protection
- Automatic check-up of system parameters
- Displays system parameters on LCD screen: Values of selected parameters, system mode, leaving and return water temperatures, current system load (in %), alarms

HIGH WALLS

FAN COIL UNITS

BLOWERS

Indoor units : see page 72



YORK®

# Water System HVS-C
## 16 to 67 kW

**H** Hydronic **V** Variable **S** Speed **C** Compact

## Technical data

| Models | | | YSC_551H-C | YSC_931H-C | YSC_931H + YOC_661H | YSC_931H + 2 x YOC_661H |
|---|---|---|---|---|---|---|
| Nominal cooling capacity for cooling only units | | kW | 16.0 | 27.0 | 47 (27 + 20) | 67 (27 + (2 x 20)) |
| Running current for cooling only units | | A | 13.2 | 20.4 | 34 (21.5 + 12.5) | 46.5 (21.5 + (2 x 12.5)) |
| Nominal cooling capacity for heat pump | | kW | 16.0 | 27.0 | 47 (27 + 20) | 67 (27 + (2 x 20)) |
| Nominal heating capacity for heat pump | | kW | 17.7 | 29.5 | 50 (29.5 + 20.5) | 70.5 (29.5 + (2 x 20.5)) |
| Unit power consumption | | W | 6370 | 9950 | 10700 + 6600 | 10700 + 6600 + 6600 |
| Running current in heating for heat pump | | A | 19 | 34 | 49 (34 + 15) | 64 (34 + (2 x 15)) |
| Electrical supply | | V/ph | 400/3+N | | | |
| Total fan input | | A | 2 x 0.75 | 2 x 1.2 | 2 x 1.2 + 2 x 0.75 | 2 x 1.2 + 4 x 0.75 |
| Expansion tank | | Litres | 8 | 8 | 8 | 8 |
| External static pressure | | kPa | 78 | 70 | 75 | 70 |
| Pump input | | A | 1.8 | 2.0 | 3.1 | 3.1 |
| Sound power level | | dB(A) | 67 | 68 | 70 | 71 |
| Sound pressure level | At 5 m | dB(A) | 41 | 42 | 44 | 45 |
| Sound pressure level | At 10 m | dB(A) | 37 | 38 | 40 | 41 |
| Weight for cooling only | | kg | 360 | 425 | 460 + 295 | 470 + (2 x 295) |

*Nominal cooling capacity based on: leaving water temperature: +6ºC - Ambient air temperature: 35ºC DB*
*Nominal heating capacity based on: leaving water temperature: +40ºC - Ambient air temperature: 7ºC DB / 6ºC WB*

## Compatibility table / Codes

| Unit | VSD (Inverter) | | ON/OFF * |
|---|---|---|---|
| Cooling only models | YSCC 551 H-C | YSCC 931 H-C | YOCC 661 H-C |
| Heat pump models | YSCH 551 H-C | YSCH 931 H-C | YOCH 661 H-C |

** Use only in combination with YSC_931 units*

### Options (factory fitted)

| | | | | |
|---|---|---|---|---|
| Condenser grid YSC_551 / YOC_661 | CGS-1 | ● | | ● |
| Condenser grid YSC_931 | CGL-1 | | ● | |
| Water filter (mandatory) | WF-1 | ● | ● | With VSD unit |
| Antifreeze heater for heat exchanger and internal piping | AFH-1 | ● | ● | ● |
| Fan coil load identification * | LI-1 | ● | ● | With VSD unit |

** The compressor is inactive when all fan coils are switched off. Operation starts again when at least one fan coil is switched on. ATTENTION! Not applicable for fan coil units with a coil sensor !*

### Accessories (supplied loose)

| | | | | |
|---|---|---|---|---|
| Remote central controller (mandatory) * | | ● | | With VSD unit |
| Interface card for LON Bus | | ● | | With VSD unit |
| Interface card for N2 Open Bus | | ● | | With VSD unit |
| Anti vibration mounting | AVM-1 | ● | ● | ● |
| Outdoor temperature sensor (for automatic mode change) ** | OTS-1 | ● | ● | With VSD unit |

** It is mandatory to have one central controller for VSD unit*

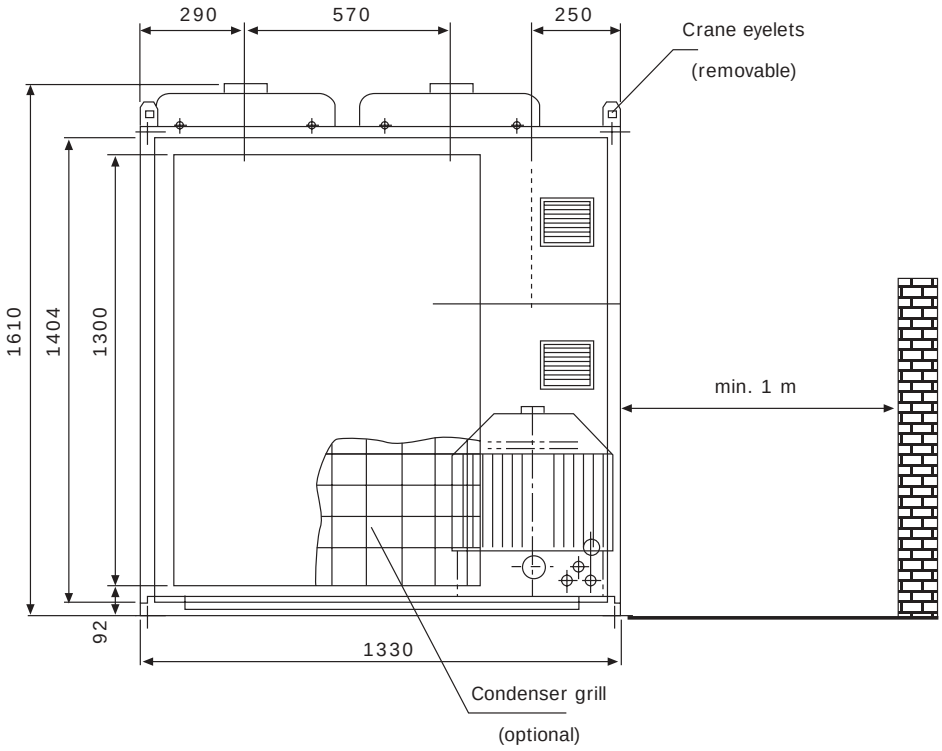
*** Heat pump only*

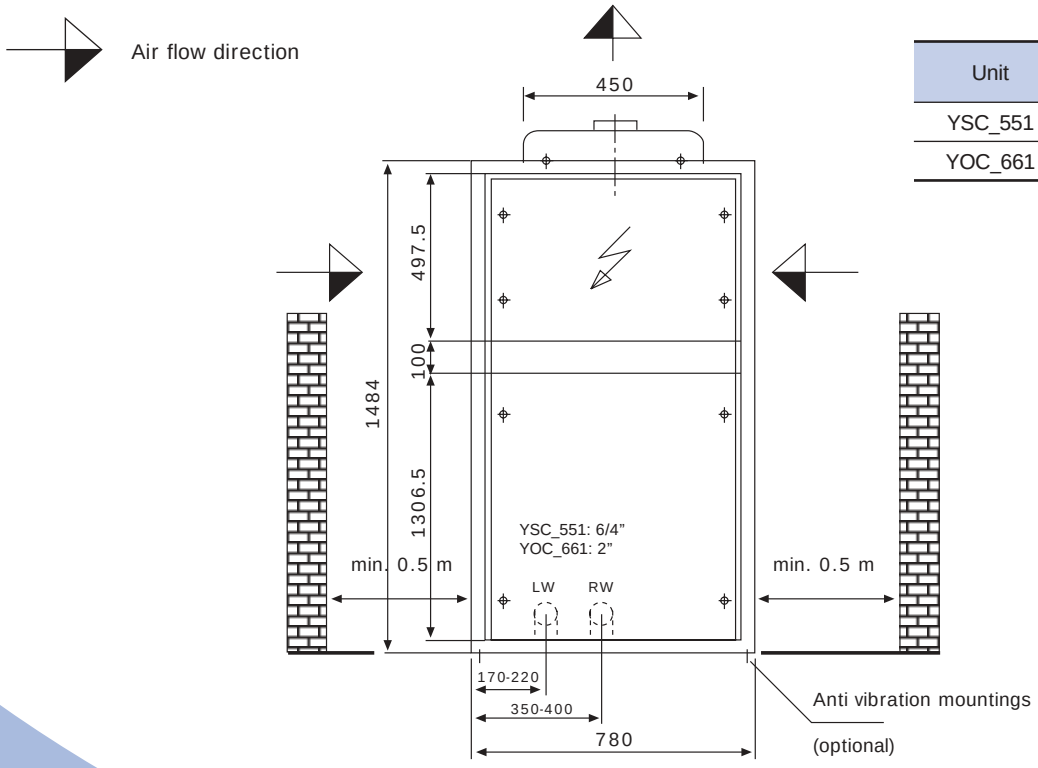
### Accessories for Fan coil units (supplied loose) compatible with HVS only

| | | |
|---|---|---|
| Valve kit diameter 3/8" | VK10-1 | ● |
| Valve kit diameter 1/2" | VK15-1 | ● |
| Valve kit diameter 3/4" | VK20-1 | ● |
| Valve kit diameter 1" | VK25-1 | ● |
| Valve kit diameter 1 1/2" | VK40-1 | ● |
| ** Valve kit is assembled and composed of an on/off thermal actuator, 3-way valve, shut off and balancing valve* | | |
| Relay box for up to 4 FCU | RB4-1 | ● |
| Relay box for up to 8 FCU | RB8-1 | ● |

# Model YSCC / YSCH 551
# YOCC / YOCH 661

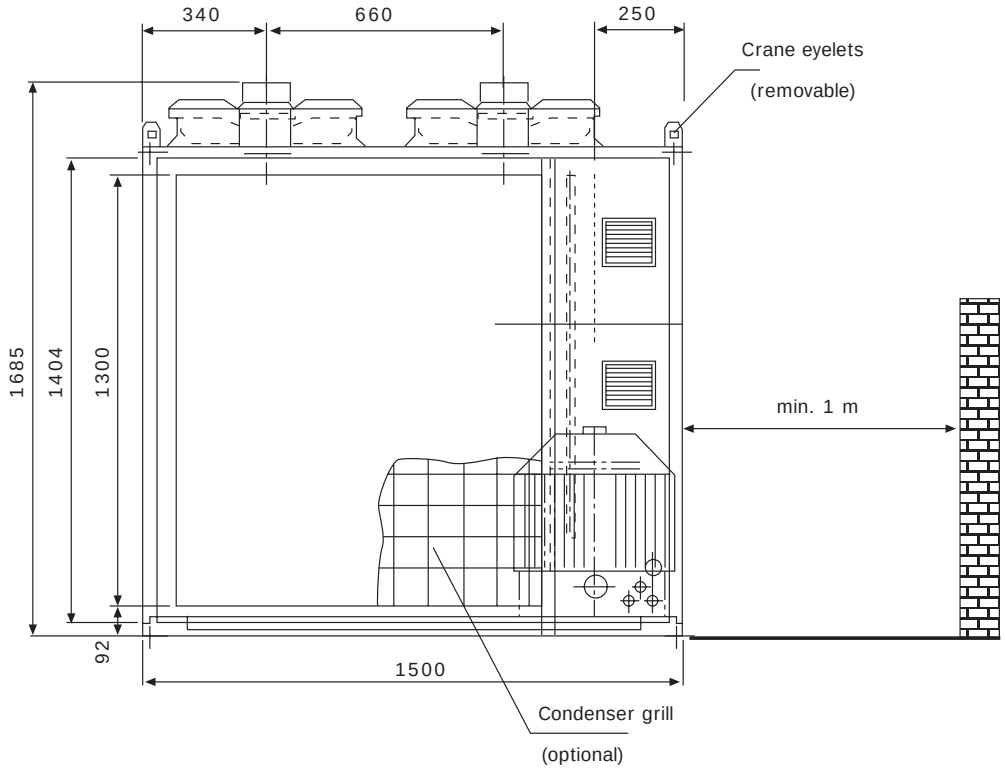
## Dimensions, space requirements and hydraulic connections



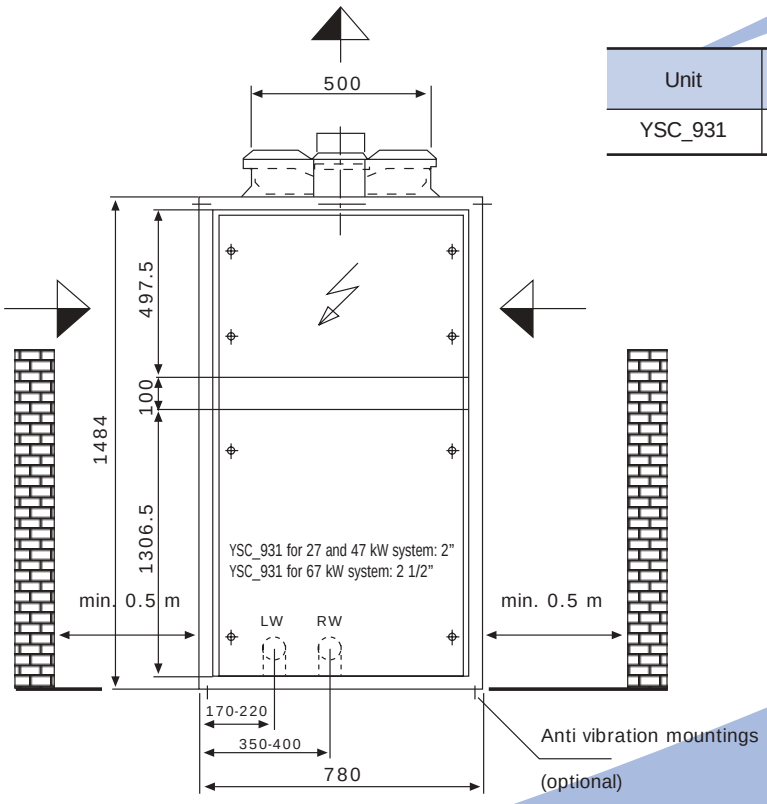




| Unit | Water pipe connection Threaded male |
|---|---|
| YSC_551 | 6/4" |
| YOC_661 | 2" |

## Dimensions, space requirements and hydraulic connections




Air flow direction




| Unit | Water pipe connection Threaded male |
|---|---|
| YSC_931 | 2" or 2 1/2" |

# Water System

# VSD Chiller & heat pump split version

- Variable speed compressor (VSD) (18% to 100%)
- Constant water temperature
- Energy savings up to 40%
- BMS communication
- Easy selection software
- FSC standard (low ambient operation)
- Plate heat exchanger
- Integrated hydro kit
- No glycol required

INVERTER

**YSC_551H**
**YOC_661H**

**YSC_931H**

hydro variable speed HVS YORK INTERNATIONAL

A complete range from 16 kW up to 67 kW

**Save up to 40% on your running costs !**

CASSETTES

CONSOLES

**Remote central controller:**

- LWT control
- Operation mode - cooling, heating (Heat pump and/or external heating system)
- Timer (weekly cycle), for whole system incl. Fan coils and ext. heating system
- Capacity limitation to reduce noise level at night
- Min. cycle time
- Automatic restart after power failure
- Hours run counter
- Water pump control
- Freeze protection
- Automatic check-up of system parameters
- Displays system parameters on LCD screen: Values of selected parameters, system mode, leaving and return water temperatures, current system load (in %), alarms

HIGH WALLS

FAN COIL UNITS

BLOWERS

Indoor units : see page 72



YORK®

# Water System HVS

## 16 to 67 kW

**H** Hydronic **V** Variable **S** Speed

### Technical data

| Models | | | YSC_551H | YSC_931H | YSC_931H + YOC_661H | YSC_931H + 2 x YOC_661H |
|---|---|---|---|---|---|---|
| Nominal cooling capacity for cooling only units | | kW | 16.0 | 27.0 | 47 (27 + 20) | 67 (27 + (2 x 20)) |
| Running current for cooling only units | | A | 11.4 | 18.4 | 30.9 (18.4 + 12.5) | 43.4 (18.4 + (2 x 12.5)) |
| Nominal cooling capacity for heat pump | | kW | 16.0 | 27.0 | 47 (27 + 20) | 67 (27 + (2 x 20)) |
| Nominal heating capacity for heat pump | | kW | 17.7 | 29.5 | 50 (29.5 + 20.5) | 70.5 (29.5 + (2 x 20.5)) |
| Unit power consumption | | W | 6100 | 9600 | 9600 + 6600 | 9600 + (2 x 6600) |
| Running current | | A | 19 | 34 | 49 (34 + 15) | 64 (34 + (2 x 15)) |
| Electrical supply | | V/ph | 400/3+N | | | |
| Total fan input | | A | 2 x 0.75 | 2 x 1.2 | 2 x 1.2 + 2 x 0.75 | 2 x 1.2 + 4 x 0.75 |
| Sound power level | | dB(A) | 67 | 68 | 70 | 71 |
| Sound pressure level | At 5 m | dB(A) | 41 | 42 | 44 | 45 |
| Sound pressure level | At 10 m | dB(A) | 37 | 38 | 40 | 41 |
| Weight for cooling only | | kg | 300 | 350 | 350 + 295 | 350 + (2 x 295) |

*Nominal cooling capacity based on: leaving water temperature: +6ºC - Ambient air temperature: 35ºC DB*
*Nominal heating capacity based on: leaving water temperature: +40ºC - Ambient air temperature: 7ºC DB / 6ºC WB*

### Compatibility table / Codes

| Unit | VSD (Inverter) | | ON/OFF * |
|---|---|---|---|
| Cooling only models | **YSCC 551 H** | **YSCC 931 H** | **YOCC 661 H** |
| Heat pump models | **YSCH 551 H** | **YSCH 931 H** | **YOCH 661 H** |

** Use only in combination with YSC_931 units*

### Transformer box (compatibilities)

| | | | |
|---|---|---|---|
| YTBC 551 H - (V or H) of 16 kW (for cooling only units) | YSCC 551 H | N/A | N/A |
| YTBC 931 H - (V or H) of 27 kW (for cooling only units) | N/A | YSCC 931 H | N/A |
| YTBC 1581 H - (V or H) of 47 kW (for cooling only units) | N/A | YSCC 931 H + YOCC 661 H | |
| YTBC 2271 H - (V or H) of 67 kW (for cooling only units) | N/A | YSCC 931 H + 2 x YOCC 661 H | |
| YTBH 551 H - (V or H) of 16 kW (for heat pump units) | YSCH 551 H | N/A | N/A |
| YTBH 931 H - (V or H) of 27 kW (for heat pump units) | N/A | YSCH 931 H | N/A |
| YTBH 1581 H - (V or H) of 47 kW (for heat pump units) | N/A | YSCH 931 H + YOCH 661 H | |
| YTBH 2271 H - (V or H) of 67 kW (for heat pump units) | N/A | YSCH 931 H + 2 x YOCH 661 H | |

### Options (factory fitted)

| | | | | |
|---|---|---|---|---|
| Condenser grid YSC_551 / YOC_661 | CGS-1 | ● | | ● |
| Condenser grid YSC_931 | CGL-1 | | ● | |
| Water filter - mandatory for each Transformer box | WF-1 | ● | ● | With VSD unit |
| Antifreeze heater for heat exchanger and internal piping | AFH-1 | ● | ● | ● |
| Fan coil load identification * | LI-1 | ● | ● | With VSD unit |

** The compressor is inactive when all fan coils are switched off. Operation starts again when at least one fan coil is switched on. ATTENTION! Not applicable for fan coil units with a coil sensor.*

### Accessories (supplied loose)

| | | | | |
|---|---|---|---|---|
| Remote central controller (mandatory) * | | ● | | With VSD unit |
| Interface card for LON Bus | | ● | | With VSD unit |
| Interface card for N2 Open Bus | | ● | | With VSD unit |
| Anti vibration mounting | AVM-1 | ● | ● | ● |
| Outdoor temperature sensor (for automatic mode change) ** | OTS-1 | ● | ● | With VSD unit |

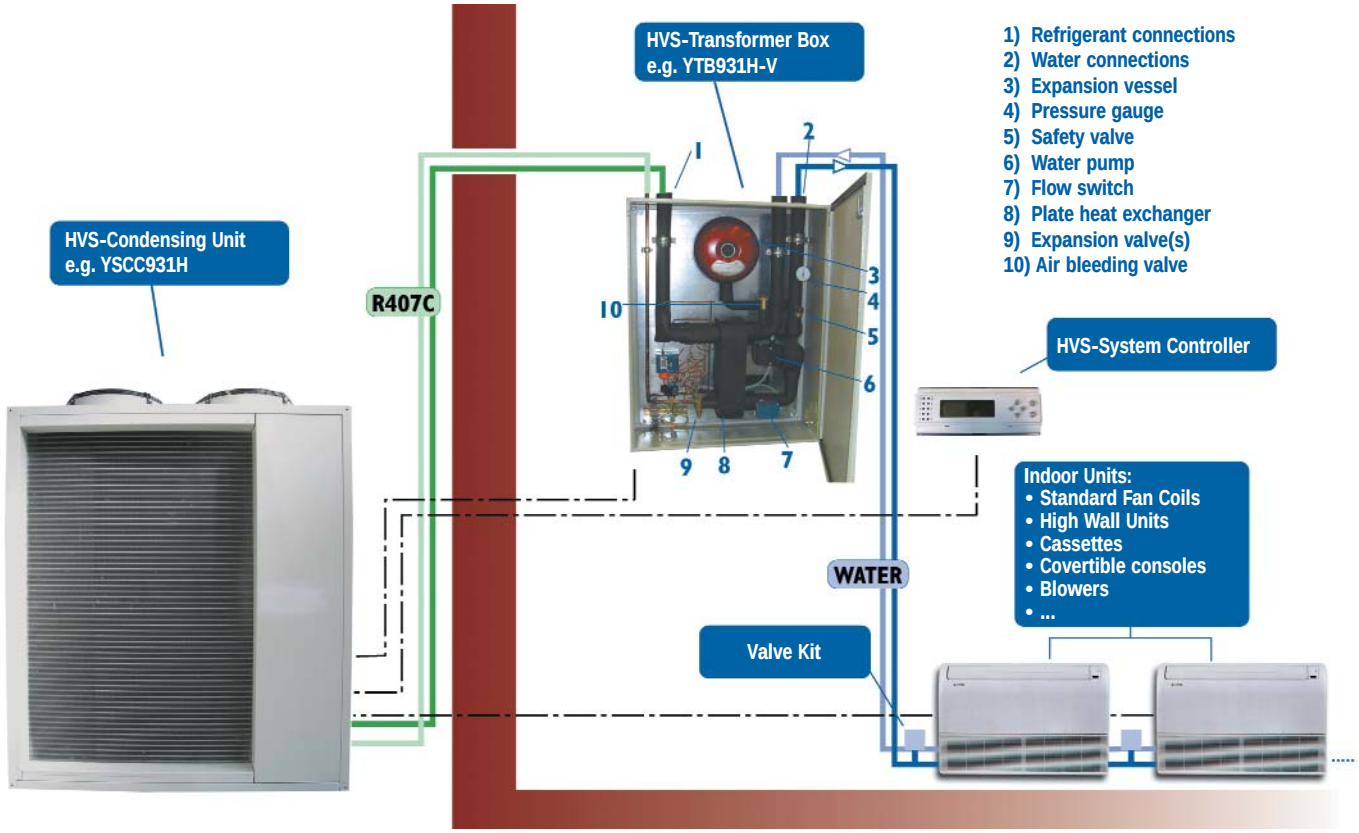
** It is mandatory to have one central controller for VSD unit*

*** Heat pump only*

### Accessories for Fan coil units (supplied loose) compatible with HVS only

| | | |
|---|---|---|
| Valve kit diameter 3/8" | VK10-1 | ● |
| Valve kit diameter 1/2" | VK15-1 | ● |
| Valve kit diameter 3/4" | VK20-1 | ● |
| Valve kit diameter 1" | VK25-1 | ● |
| Valve kit diameter 1 1/2" | VK40-1 | ● |
| ** Valve kit is assembled and composed of an on/off thermal actuator, 3-way valve, shut off and balancing valve* | | |
| Relay box for up to 4 FCU | RB4-1 | ● |
| Relay box for up to 8 FCU | RB8-1 | ● |

# System Overview




## TRANSFORMER BOXES

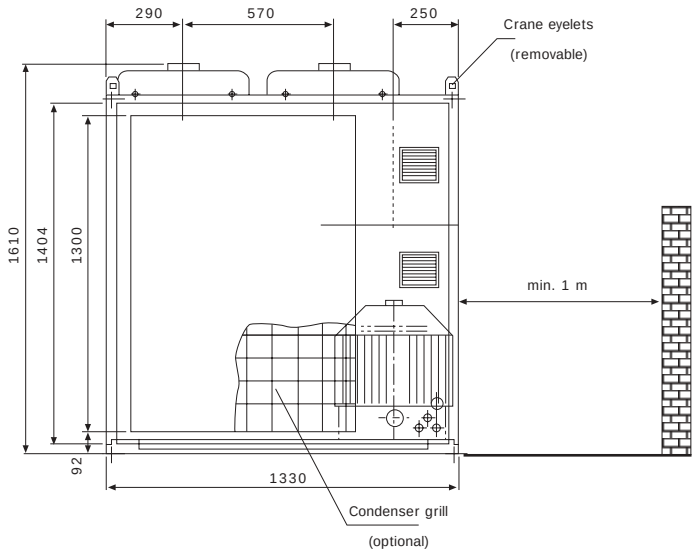
| | | | YTBV / YTBH | | | |
|---|---|---|---|---|---|---|
| **Models** | | | **551H** | **931H** | **1581H** | **2271H** |
| Cooling capacities | Total capacity | kW | 16.0 | 27.0 | 47.0 | 67.0 |
| | Water flow | l/h | 2295 | 3870 | 6750 | 9620 |
| Heating capacities (YTBH only) | Capacity | kW | 17.5 | 29.5 | 50.0 | 70.5 |
| | Water flow | l/h | 2295 | 3870 | 6750 | 9620 |
| Water pump | Max. available external static pressure head *) | kPa | 78 | 70 | 75 | 70 |
| Sound pressure level at 3 m free field | | dB(A) | 15 | 15 | 20 | 20 |
| Electrical characteristics | Power supply | V/Ph/Hz | 220 - 240 / 1 / 50 | | 400 / 3 / 50 | |
| | Power input -nominal | kW | 270 | 350 | 1100 | 1100 |
| | Running current - nominal | A | 1.8 | 2.0 | 3.1 | 3.1 |
| Dimensions | H | mm | 1000 | 1000 | 1200 | 1200 |
| | W | mm | 800 | 800 | 1000 | 1000 |
| | D | mm | 300 | 300 | 300 | 300 |
| Net weight | | kg | 80 | 95 | 150 | 170 |
| Water connections | Type | kg | Threaded male connection | | | |
| | Diameter | | 1 1/2" | 2" | 2" | 2 1/2" |
| Refrigerant piping connections | Diameter (nominal) | | 1/2" / 1" 1/8 | 5/8" / 1" 3/8 | 5/8" / 1" 3/8 & 1/2" / 1" 1/8 | 5/8" / 1" 3/8 & (2x)1/2" / 1" 1/8 |

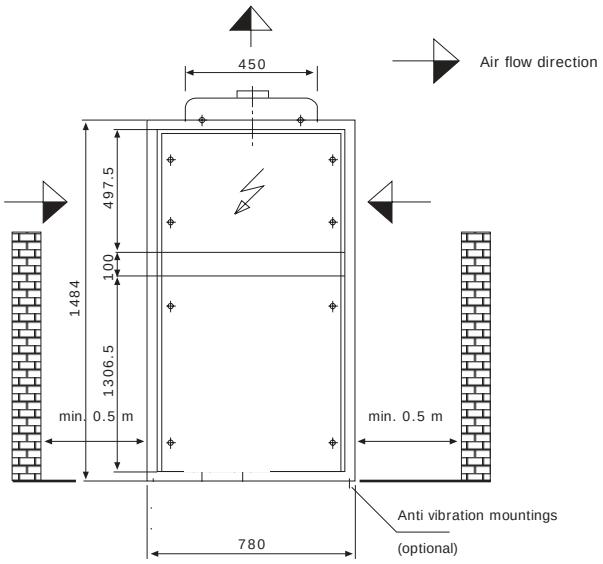
*Nominal cooling capacity based on: Leaving water temperature: +6º C*
*Nominal heating capacity based on: Leaving water temperature: +40º C*

**) at nominal water flow*

# Dimensions and space requirements

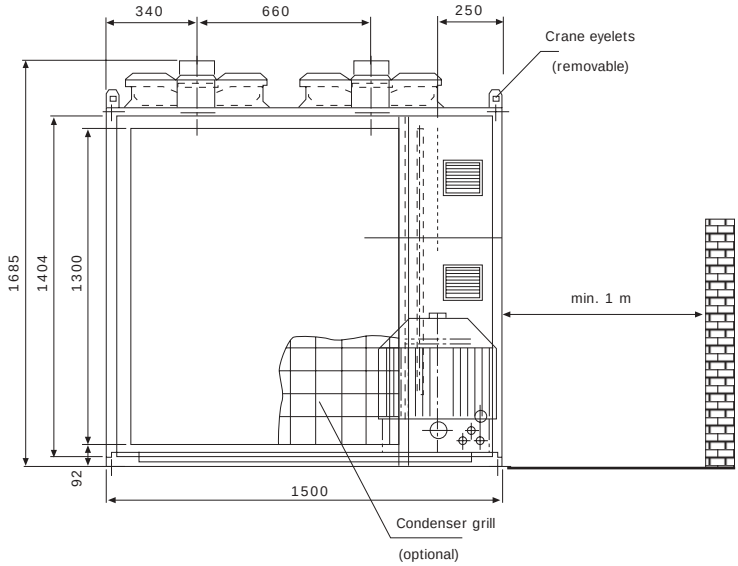
## Condensing unit
## YSCC / YSCH 551 - YOCC / YOCH 661

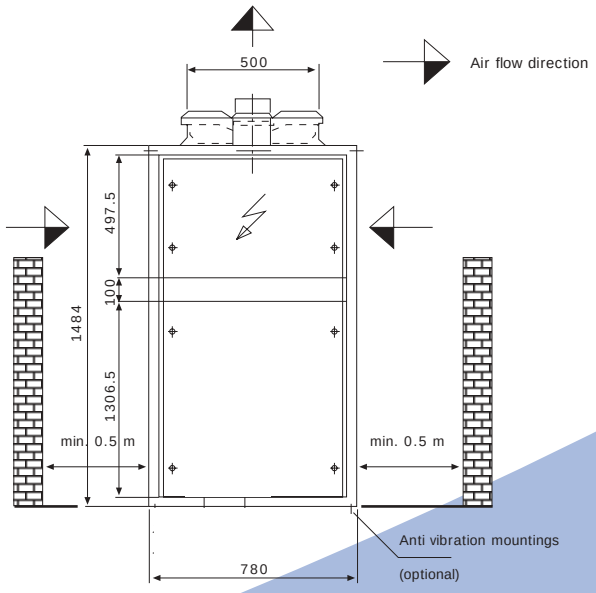



| Unit | Refrigerant tubing diameter (mm) |
|---|---|
| Liquid side | 1/2” |
| Suction side | 1” 1/8 |

## Condensing unit
## YSCC / YSCH 931

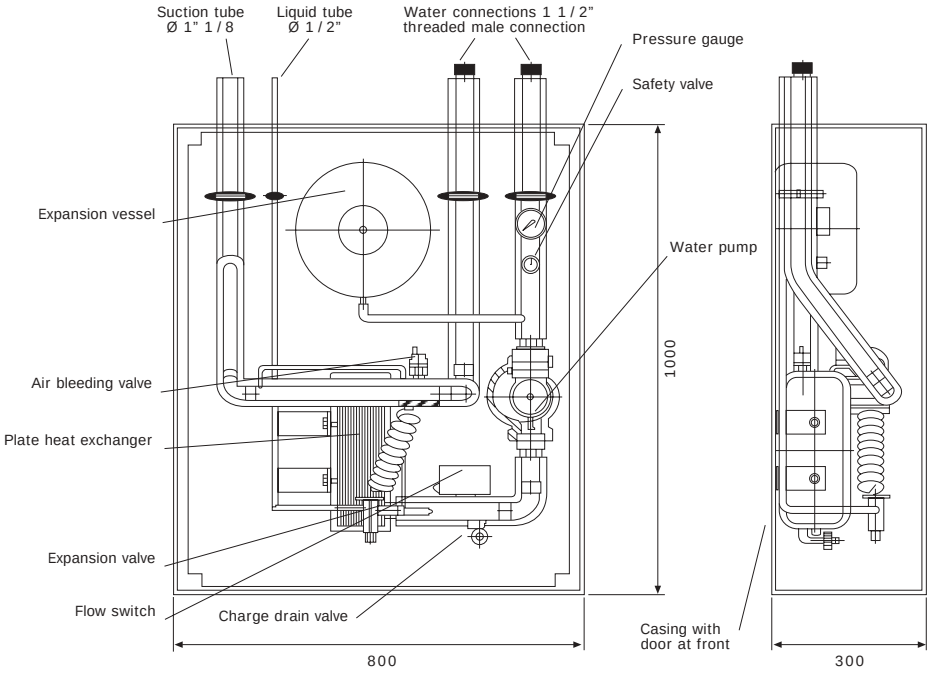



| Unit | Refrigerant tubing diameter (mm) |
|---|---|
| Liquid side | 5/8” |
| Suction side | 1” 3/8 |

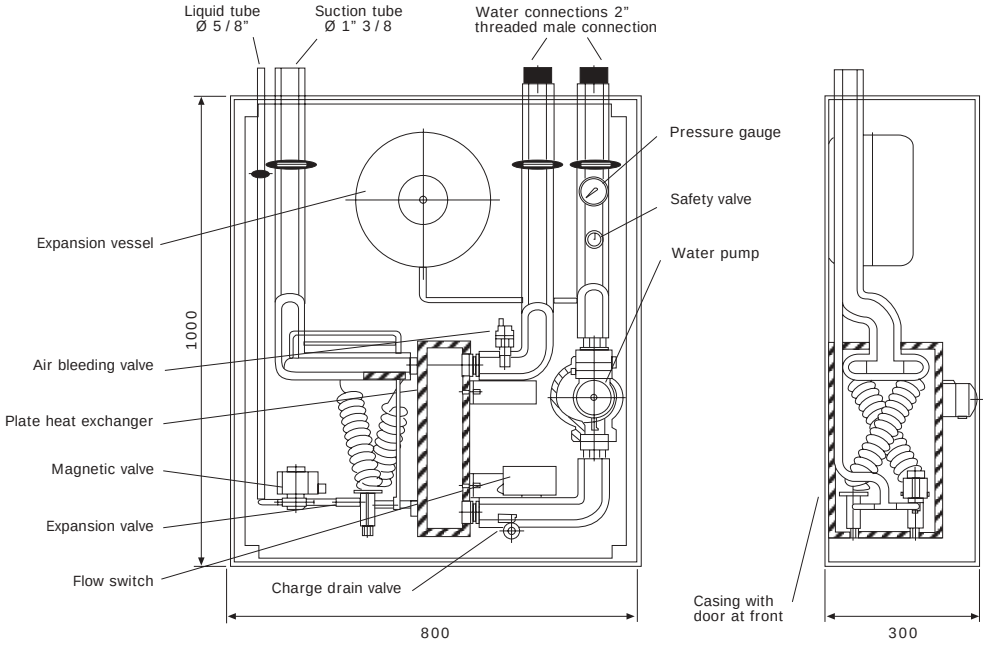
# Dimensions and refrigerant piping connections

## Transformer box
## YTB_551H-V



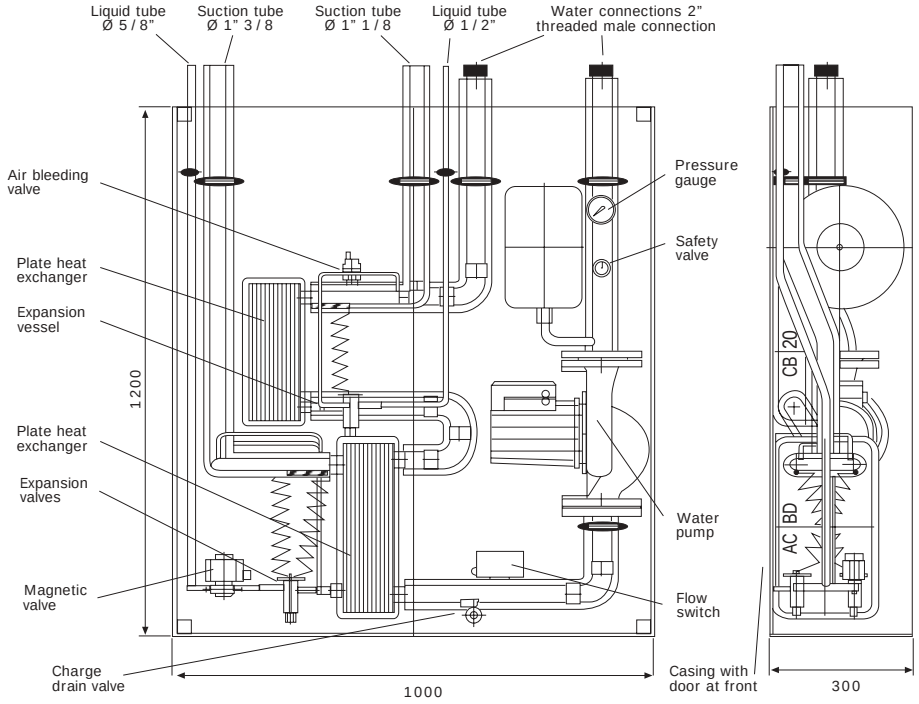

| Unit | Water pipe connection | Refrigerant tubing Ø | Weight kg |
|---|---|---|---|
| YTB_551H-V | 1 1/2" threaded male | 1/2" / 1" 1/8 | 80 |

## Transformer box
## YTB_931H-V



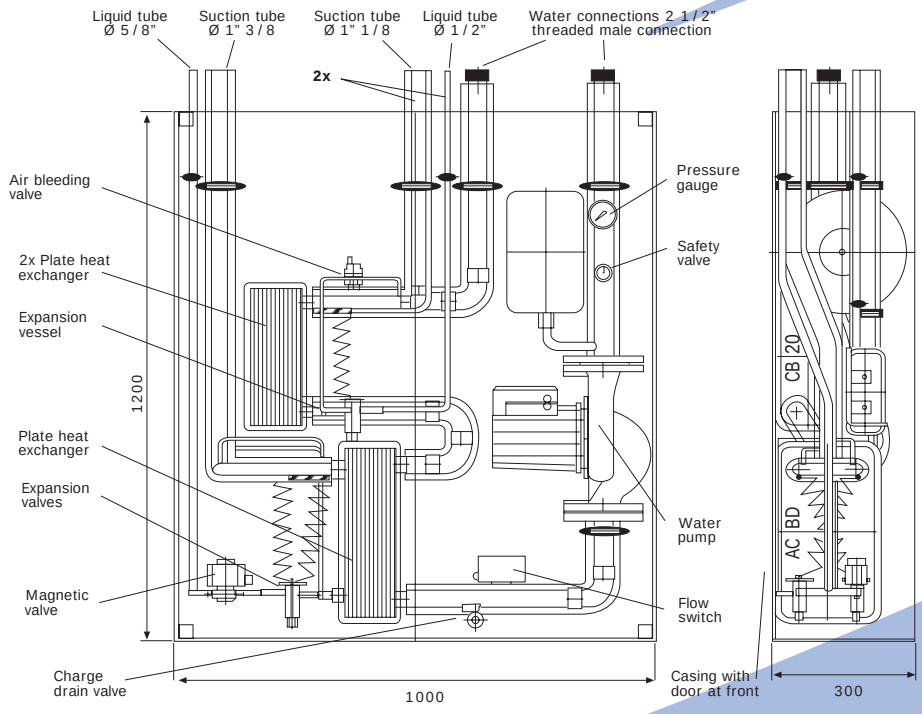

| Unit | Water pipe connection | Refrigerant tubing Ø | Weight kg |
|---|---|---|---|
| YTB_931H-V | 2" threaded male | 5/8" / 1" 3/8 | 95 |

## Transformer box
## YTB_1581H-V




| Unit | Water pipe connection | Refrigerant tubing Ø | Weight kg |
|---|---|---|---|
| YTB_1581H-V | 2" threaded male | 5/8" / 1" 3/8 & 1/2" / 1" 1/8 | 150 |

## Transformer box
## YTB_2271H-V




| Unit | Water pipe connection | Refrigerant tubing Ø | Weight kg |
|---|---|---|---|
| YTB_2271H-V | 2 1/2" threaded male | 5/8" / 1" 3/8 & 2x 1/2" / 1" 1/8 | 170 |

# Water System

# Air cooled chiller
# Air to water heat pump

- R407C
- LWT and RWT Control (ISN)
- Separated Hydro kit
  (option for YCCD / YCAA-H)
- Integrated Hydro kit (YCCD)
- Plate heat exchanger
- FSC standard
  (low ambient operation) (-5ºC)
  (-18ºC with ISN)
- Low noise version
- High temperature version

**YCCD 170-210**

**YCCD 60-150**
**YCAA H 60-150**

CASSETTES

**Soon available**
**YCCD 60 to 150 with**
**Integrated Hydro kit**

**Option Hydro Kit**
(see page 62)

A complete range from
40 kW up to 150 kW

CONSOLES

**ISN CONTROL**

**Options / Accessories**

- Gold fins
- Copper fins
- Coil guard
- ISN
- Remote control
- Mechanical gauge kit
- Water filter

HIGH WALLS

FAN COIL UNITS

BLOWERS

Indoor units : see page 72

# Water System YCCD / YCAA-H
## 40 to 150 kW

## Technical data

| Models | | | YCCD / YCAA-H | | | | | | YCCD | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Sizes | 60 | 75 | 90 | 105 | 120 | 150 | 170 | 190 | 210 |
| Nominal cooling capacity for YCCD (1) (3) | | kW | 46 | 53 | 63 | 73 | 88 | 101 | 122 | 135 | 149 |
| Compressor input for YCCD (1) (3) | | A | 29.8 | 36.4 | 43.0 | 53.0 | 62.8 | 75.6 | 86.8 | 96.0 | 106.0 |
| Nominal cooling capacity for YCAA-H (1) (3) | | kW | 45.4 | 53.2 | 61.8 | 75.3 | 90.8 | 105 | | | |
| Nominal heating capacity for YCAA-H (2) (3) | | kW | 47.9 | 55.8 | 61.2 | 76.6 | 91.0 | 105.2 | | | |
| Compressor input in cooling for YCAA-H (1) (3) | | A | 31.0 | 35.7 | 41.9 | 49.8 | 59.7 | 71.2 | | | |
| Compressor input in heating for YCAA-H (2) (3) | | A | 26.7 | 31.4 | 34.3 | 41.9 | 49.8 | 62.3 | | | |
| Electrical supply | | V/ph/Hz | 400 / 3 / 50 + E | | | | | | | | |
| Expansion tank volume with hydro kit (4) | | Litres | 18 | | | | | | | | |
| Pressure drop for YCCD (4) | | kPa | 21 | 24 | 24 | 26 | 23 | 53 | 38 | 42 | 52 |
| Sound power level (4) | | dB(A) | 87 | 87 | 88 | 89 | 90 | 90 | 93 | 94 | 94 |
| Sound pressure level | At 5 m (4) | dB(A) | 60 | 60 | 61 | 62 | 63 | 63 | 66 | 67 | 67 |
| Sound pressure level | At 10 m (4) | dB(A) | 56 | 56 | 57 | 58 | 59 | 59 | 62 | 63 | 63 |
| Weight YCCD (4) (5) | | kg | 600 | 624 | 784 | 827 | 888 | 962 | 1 344 | 1 383 | 1 482 |

*(1) Data refers to 7°C leaving chilled water temperature and 35°C ambient temperature*
*(2) Data refers to 45°C leaving hot water temperature and 7°C ambient temperature -87% R.H.*
*(3) For LN and HT version contact York International*
*(4) For YCAA-H consult technical guide*
*(5) YCCD unit without hydro kit*

## Compatibility table

| Model | YCCD / YCAA-H | | | | | | YCCD | | |
|---|---|---|---|---|---|---|---|---|---|
| | 60 | 75 | 90 | 105 | 120 | 150 | 170 | 190 | 210 |
| **Options (Factory fitted)** | | | | | | | | | |
| Condenser (for YCCD Cooling only units standard) | | | | | | | | | |
| Gold fins | ● | | ● | ● | ● | ● | ● | | ● |
| Copper fins | ● | | ● | | ● | | | ● | |
| Coil guard | | ● | | | ● | | | ● | |
| Hydro kit integrated ( **HK** Hydro kit **1SP** one standard pump **2SP** two standard pumps **1HP** one high pressure pump **2HP** two high pressure pumps ) | | | | | | | | | |
| HK1 - 1SP for YCCD | ● | ● | ● | N/A | N/A | N/A | N/A | N/A | N/A |
| HK1 - 2SP for YCCD | ● | ● | ● | N/A | N/A | N/A | N/A | N/A | N/A |
| HK1 - 1HP for YCCD | ● | ● | ● | N/A | N/A | N/A | N/A | N/A | N/A |
| HK1 - 2HP for YCCD | ● | ● | ● | N/A | N/A | N/A | N/A | N/A | N/A |
| HK2 - 1SP for YCCD | N/A | N/A | N/A | ● | ● | ● | N/A | N/A | N/A |
| HK2 - 2SP for YCCD | N/A | N/A | N/A | ● | ● | ● | N/A | N/A | N/A |
| HK2 - 1HP for YCCD | N/A | N/A | N/A | ● | ● | ● | N/A | N/A | N/A |
| HK2 - 2HP for YCCD | N/A | N/A | N/A | ● | ● | ● | N/A | N/A | N/A |
| ISN controller | ● | | | | | | Included | | |
| Additional antifreeze heater (in manifold) | ● | | | | | | N/A | | |
| **Accessories (Supplied loose)** | | | | | | | | | |
| **Standard controller** | | | | | | | | | |
| Remote control | ● | | | | | | N/A | | |
| Mechanical gauge kit | ● | | | | | | N/A | | |
| Remote control for ISN controller | | | | | ● | | | | |
| Anti vibration mounting | ● | | | | | | | ● | |
| Water filter | | | | | ● | | | | |

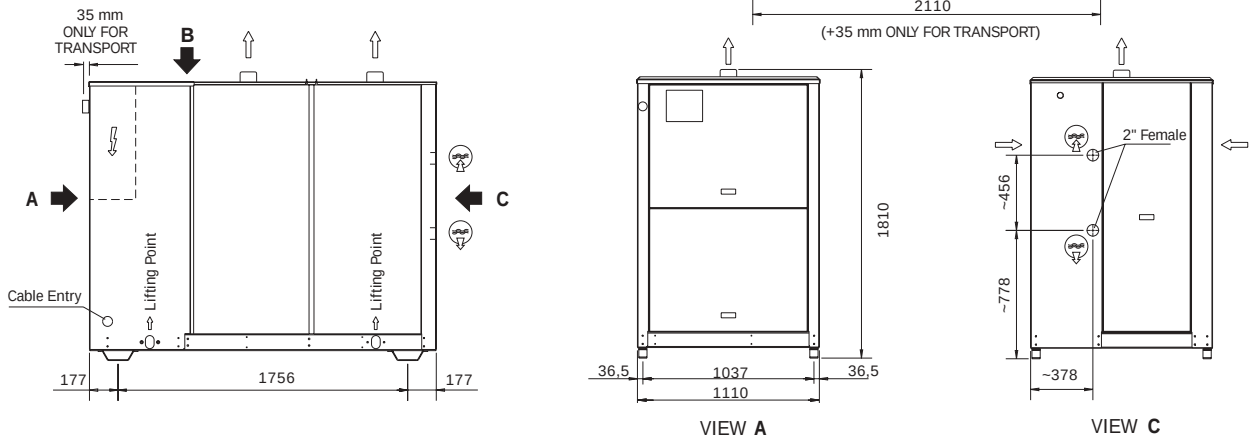
• Available N/A Not available

# Dimensions and hydraulic connections

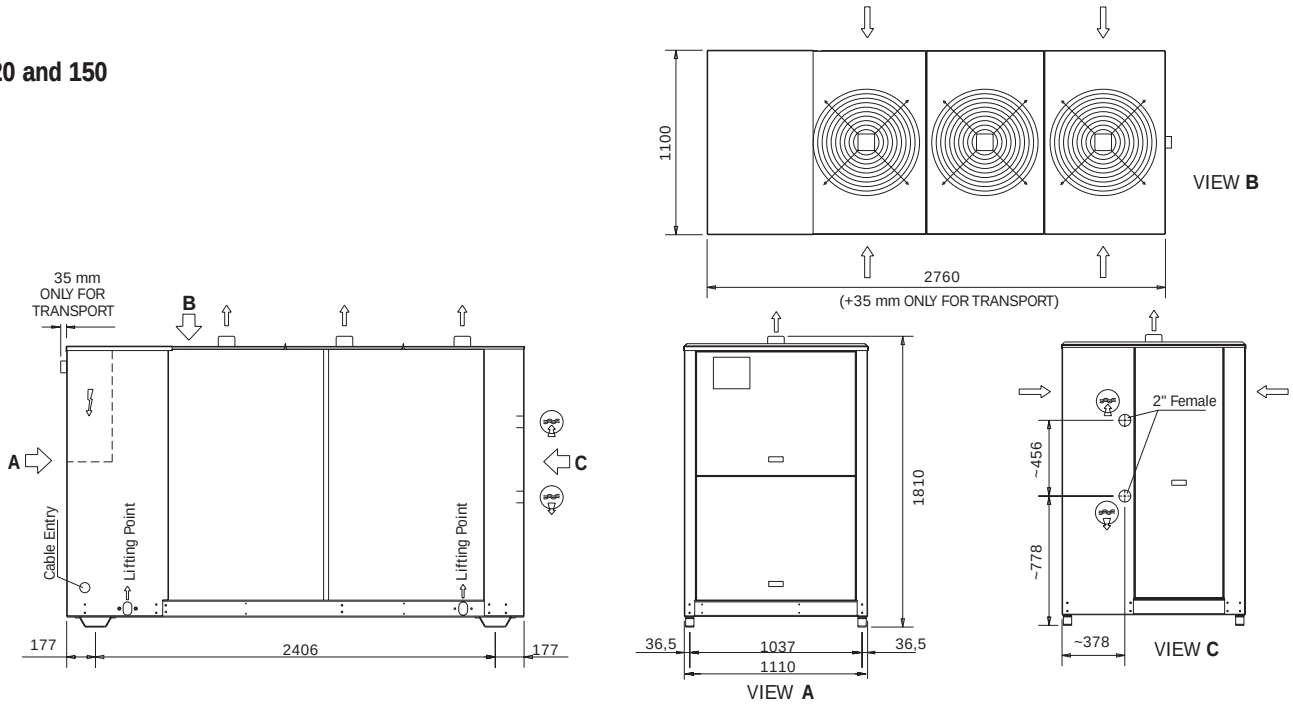
## ■ Models 60, 75, 90 and 105

**Standard unit**

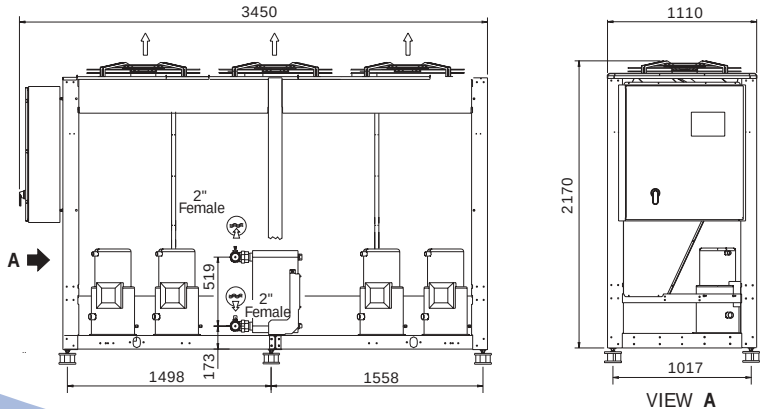
**For LN and HT versions contact your York dealer**




## ■ 120 and 150

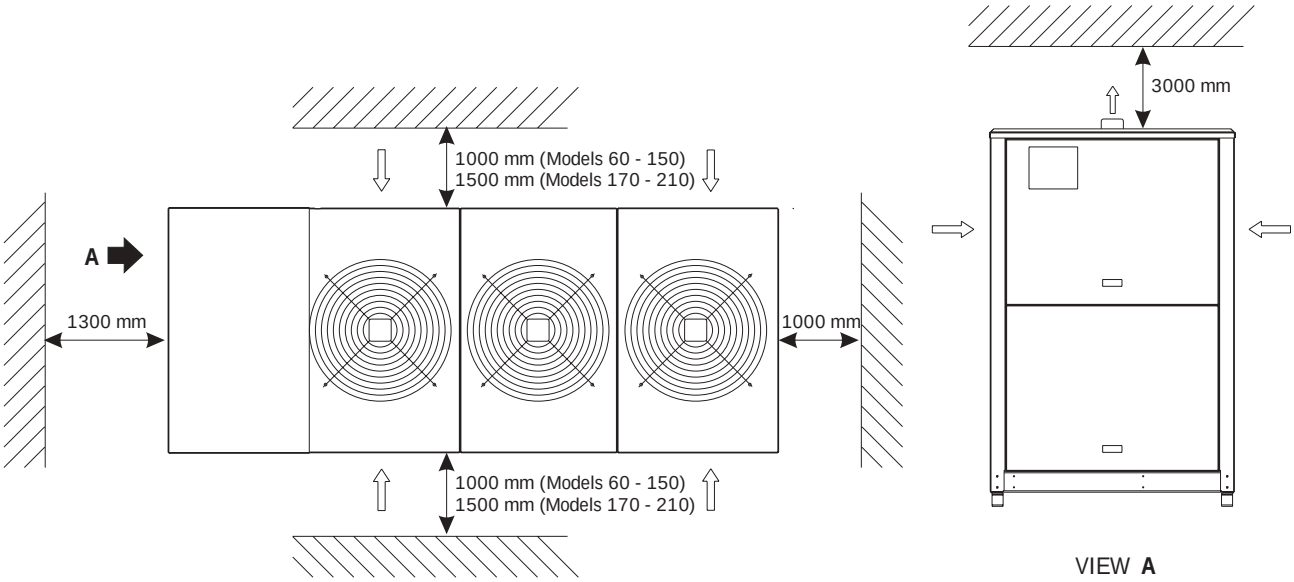



## ■ YCCD 170, 190 and 210

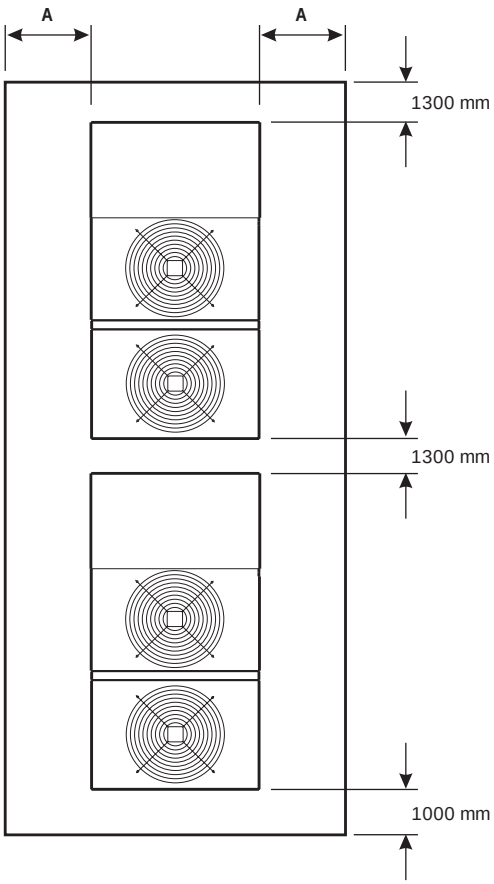


# Space requirements

## ■ Single unit applications

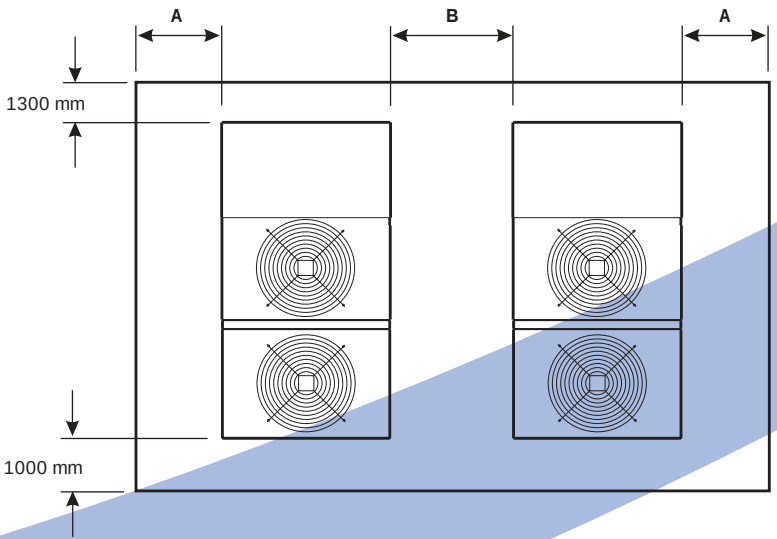



## ■ Multi unit applications




A = 1000 mm (Models 60 - 150)
1500 mm (Models 170 - 210)

B = 1500 mm (Models 60 - 150)
2000 mm (Models 170 - 210)

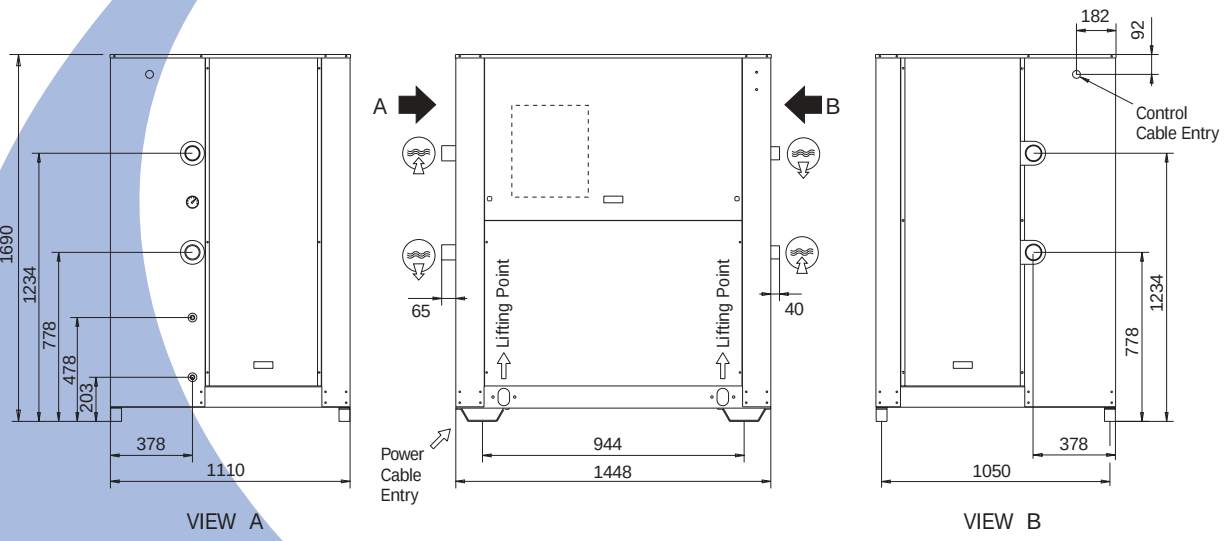


# Water System Hydro Kit
## 300 and 500 Litres for YCCD and YCAA-H

- Single or dual pump
- Standard or high pressure head
- Buffer tank
- Expansion tank
- Service valve
- Air bleeding valve
- Filling valve
- Draining valve

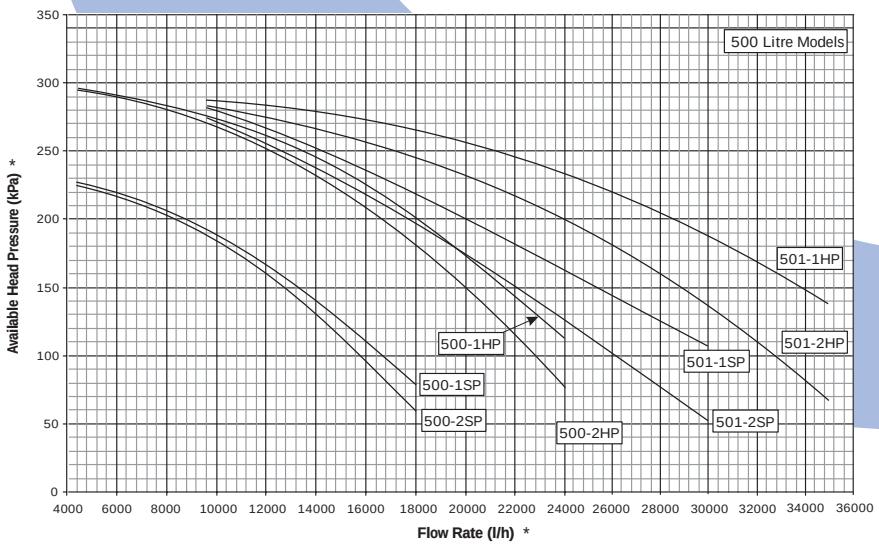
**HYDRO KIT 300-500-501**

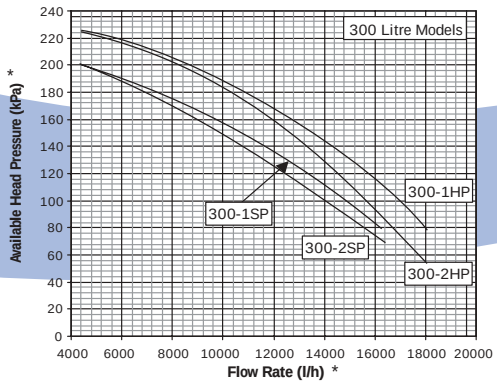
## DIMENSIONS




VIEW A VIEW B

## AVAILABLE HEAD PRESSURES




*Note: The available head pressure values include the water filter and Hydro Kit pressure drops.*
** Always check that the Δt is compatible with your YCCD and YCAA-H*

# Water System Hydro kit for YCCD and YCAA-H

## Technical data

| Model | *1-SP = Single pump standard pressure head*<br>*2-SP = Dual pump standard pressure head*<br>*1-HP = Single pump high pressure head*<br>*2-HP = Dual pump high pressure head* | | HYDRO KIT 300 | | | | HYDRO KIT 500 | | | | HYDRO KIT 501 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Standard Pressure | | High Pressure | | Standard Pressure | | High Pressure | | Standard Pressure | | High Pressure | |
| | | | 1-SP | 2-SP | 1-HP | 2-HP | 1-SP | 2-SP | 1-HP | 2-HP | 1-SP | 2-SP | 1-HP | 2-HP |
| Buffer tank capacity | | L | 300 | | | | 500 | | | | 500 | | | |
| Expansion tank capacity | | L | 1x12 | | | | 2x8 | | | | 2x8 | | | |
| Safety valve calibration | | bar | 3 | | | | 3 | | | | 3 | | | |
| Power supply | | V/Ph/Hz | 400/3/50 | | | | | | | | | | | |
| Water connection (system side) | | | 2" gas female | | | | 2" gas female | | | | 2" gas female | | | |
| Water connection (chiller/heat pump side) | | | 2" gas male | | | | 2" gas male | | | | 2" gas male | | | |
| Fill and drain valves | | | 1/2" gas female | | | | 1/2" gas female | | | | 1/2" gas female | | | |
| Operating Weight | One standard pressure pump | kg | 536 | | | | 800 | | | | 812 | | | |
| | Two standard pressure pumps | kg | 572 | | | | 840 | | | | 864 | | | |
| | One high pressure pump | kg | 540 | | | | 806 | | | | 816 | | | |
| | Two high pressure pumps | kg | 578 | | | | 850 | | | | 868 | | | |
| Shipping Weight | One standard pressure pump | kg | 268 | | | | 300 | | | | 314 | | | |
| | Two standard pressure pumps | kg | 304 | | | | 340 | | | | 364 | | | |
| | One high pressure pump | kg | 270 | | | | 306 | | | | 316 | | | |
| | Two high pressure pumps | kg | 308 | | | | 350 | | | | 368 | | | |

## Compatibility table / Codes

| | | | YCCD / YCAA-H | | | | | | YCCD | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 60 | 75 | 90 | 105 | 120 | 150 | 170 | 190 | 210 |
| **Model** | Capacity | Code | | | | | | | | | |
| 300-1SP | 300 L | 462B50950-000 | O | O | O | X | X | X | X | X | X |
| 300-1HP | 300 L | 462B50950-001 | O | O | O | X | X | X | X | X | X |
| 300-2SP | 300 L | 462B50950-200 | O | O | O | X | X | X | X | X | X |
| 300-2HP | 300 L | 462B50950-201 | O | O | O | X | X | X | X | X | X |
| 500-1SP | 500 L | 462B50951-000 | O | O | O | O | O | O | X | X | X |
| 500-1HP | 500 L | 462B50951-001 | O | O | O | O | O | O | X | X | X |
| 500-2SP | 500 L | 462B50951-200 | O | O | O | O | O | O | X | X | X |
| 500-2HP | 500 L | 462B50951-201 | O | O | O | O | O | O | X | X | X |
| 501-1SP | 500 L | 462B50950-020 | O | O | O | O | O | O | O | O | O |
| 501-1HP | 500 L | 462B50950-021 | O | O | O | O | O | O | O | O | O |
| 501-2SP | 500 L | 462B50950-220 | O | O | O | O | O | O | O | O | O |
| 501-2HP | 500 L | 462B50950-221 | O | O | O | O | O | O | O | O | O |
| 300-1SP RA | 300 L | 462B50950-010 | O | O | O | X | X | X | X | X | X |
| 300-1HP RA | 300 L | 462B50950-011 | O | O | O | X | X | X | X | X | X |
| 300-2SP RA | 300 L | 462B50950-210 | O | O | O | X | X | X | X | X | X |
| 300-2HP RA | 300 L | 462B50950-211 | O | O | O | X | X | X | X | X | X |
| 500-1SP RA | 500 L | 462B50951-010 | O | O | O | O | O | O | X | X | X |
| 500-1HP RA | 500 L | 462B50951-011 | O | O | O | O | O | O | X | X | X |
| 500-2SP RA | 500 L | 462B50951-210 | O | O | O | O | O | O | X | X | X |
| 500-2HP RA | 500 L | 462B50951-211 | O | O | O | O | O | O | X | X | X |
| 501-1SP RA | 500 L | 462B50951-020 | O | O | O | O | O | O | O | O | O |
| 501-1HP RA | 500 L | 462B50951-021 | O | O | O | O | O | O | O | O | O |
| 501-2SP RA | 500 L | 462B50951-220 | O | O | O | O | O | O | O | O | O |
| 501-2HP RA | 500 L | 462B50951-221 | O | O | O | O | O | O | O | O | O |
| 300-1HP 230T | 300 L | 462B50950-004 | O | O | O | X | X | X | X | X | X |
| 500-1HP 230T | 500 L | 462B50951-004 | O | O | O | O | O | O | X | X | X |

O Compatible X Not compatible

## Accessories (Supplied loose)

| | |
|---|---|
| Antivibration mounting 300 L | ● |
| Antivibration mounting 500 L | ● |

● Available

# Water System

# Air cooled chiller with centrifugal fan
# Air to water heat pump

- R407C
- Scroll compressor
- Electronic control
- Centrifugal fan
- Hydro kit (option)
- Coaxial heat exchanger

**YCCS 25-40**

Indoor units : see page 72

CASSETTES

CONSOLES

HIGH WALLS

FAN COIL UNITS

BLOWERS

**Hydro kit GH 140 & 200**

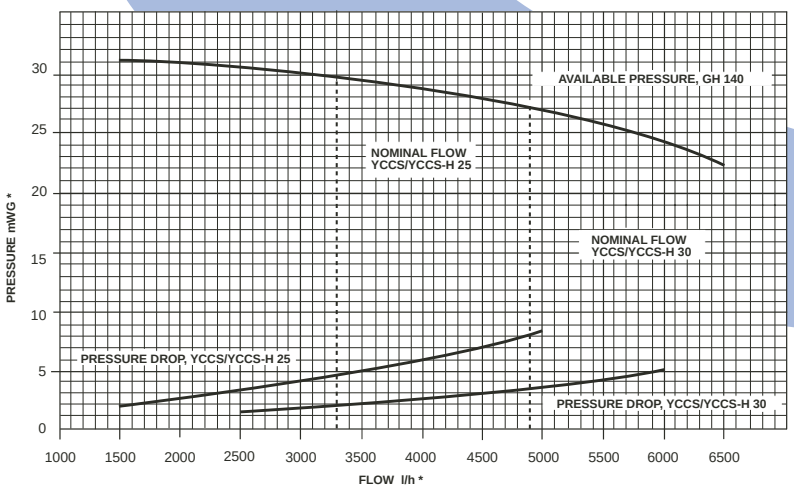
(see page 70)

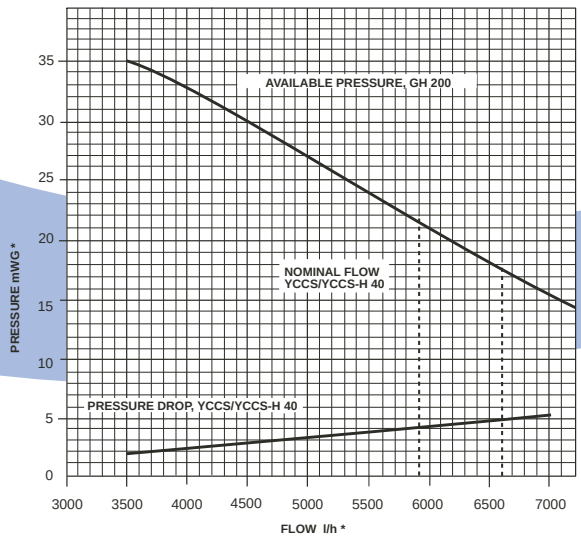
From 18 kW up to 32 kW

**Options / Accessories:**

- Hydro kit
- Flow switch

## Flow / Pressure graph with Hydro kit GH




* Always check that Δt is compatible with your YCCS unit



YORK®

# Water System YCCS
## 18 to 32 kW

### Technical data

| Models | | | YCCS / YCCS-H | | |
|---|---|---|---|---|---|
| | | Sizes | **25** | **30** | **40** |
| Nominal cooling capacity for cooling only units | | kW | 18.80 | 24.80 | 31.15 |
| Compressor input for cooling only units | | A | 13.3 | 16.5 | 19 |
| Nominal cooling capacity for heat pump | | kW | 18.80 | 24.80 | 31.15 |
| Nominal heating capacity for heat pump | | kW | 20.45 | 32.24 | 32.74 |
| Compressor input in cooling for heat pump | | A | 13.1 | 17.5 | 18.9 |
| Compressor input in heating for heat pump | | A | 14.8 | 19.1 | 20.1 |
| Electrical supply | | V/ph/Hz | 400 / 3 / 50 | 400 / 3 / 50 | 400 / 3 / 50 |
| Total fan input | | A | 2 x 2.54 | 2 x 7 | 2 x 3.51 |
| Unit water volume | | Litres | 20 | 25 | 54 |
| Pressure drop for cooling only | | kPa | 38 | 38 | 28 |
| Pressure drop in cooling for heat pump | | kPa | 38 | 44 | 32 |
| Sound power level | | dB(A) | 75 | 80 | 80 |
| Sound pressure level | At 5 m | dB(A) | 49 | 54 | 54 |
| Sound pressure level | At 10 m | dB(A) | 45 | 50 | 50 |
| Weight | | kg | 315 | 372 | 402 |

*Nominal cooling capacity based on: leaving water temperature: +7ºC - Ambient air temperature: 35ºC DB* *H = Heat pump*
*Nominal heating capacity based on: leaving water temperature: +45ºC - Ambient air temperature: 7ºC DB / 6ºC WB*

### Compatibility table / Codes

| Models cooling only | | **YCCS 25** | **YCCS 30** | **YCCS 40** |
|---|---|---|---|---|
| | Code | 668510354 | 668510454 | 668510554 |

| Models heat pump | | **YCCS-H 25** | **YCCS-H 30** | **YCCS-H 40** |
|---|---|---|---|---|
| | Code | 668632554 | 668633054 | 668634054 |

### Options (factory fitted)

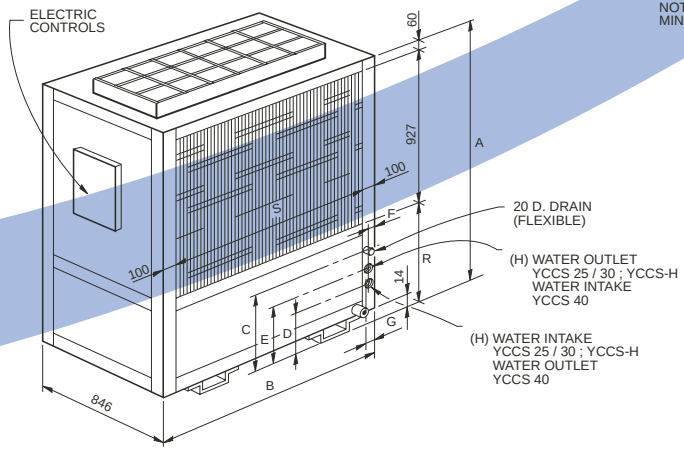
| Flow switch | Code | 611992021 |
|---|---|---|

| Hydro kit models | | **GH 140 *** | **GH 200 *** |
|---|---|---|---|
| | Code | 613991402 | 613992002 |

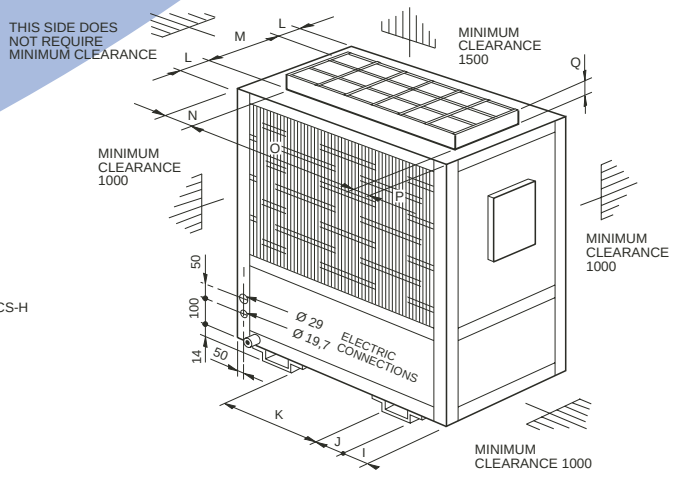
* For information of GH see page 72

## Dimensions and hydraulic connections

**Hydraulic connection side**




**Electrical connection side**




| Model | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| YCCS/H-25 | 1602 | 1200 | 394 | 514 | 312 | 54 | 54 | 1¼" Gas | 148.5 | 104 | 695 | 228 | 390 | 126 | 720 | 354 | 30 | 615 | 1000 |
| YCCS/H-30 | 1742 | 1500 | 645 | 580 | 417 | 54 | 79 | 1½" Gas | 148.5 | 104 | 995 | 197 | 452 | 237 | 802 | 461 | 30 | 755 | 1300 |
| YCCS/H-40 | 1742 | 1500 | 509 | 654 | 394 | 54 | 54 | 2" Gas | 148.5 | 104 | 995 | 155 | 536 | 237 | 802 | 461 | 30 | 755 | 1300 |

All dimensions in mm

# Water System

# Air cooled chiller & heat pump with centrifugal fan

- R407C
- Centrifugal fan
- Scroll compressor
- Vertical or horizontal discharge
- Coaxial heat exchanger
- Ductable (inlet/outlet)
- Hydro kit (option)
- Electronic control

**YLCC 42-152** ②

CASSETTES

**Hydro kit GH 200-260 & 600**

(see page 70)

**Soon available**
**new version ②**

CONSOLES

A complete range from 40 kW up to 150 kW

**Options / Accessories:**

- LAK (-18ºC)
- Shut off valve HP/LP
- Anti corrosion coated condenser fins
- Antivibration mounting
- Flow switch
- Remote control
- BMS communication

HIGH WALLS

FAN COIL UNITS

BLOWERS

Indoor units : see page 72



YORK®

R407C

# Water System YLCC ②

## 40 to 150 kW

### Technical data

| | | YLCC / YLCC-H | | | | | |
|---|---|---|---|---|---|---|---|
| **Models** | | **40 / 42 H *** | **62** | **82** | **102** | **122** | **152** |
| Nominal cooling capacity for cooling only units | kW | 36.2 / - | 64 | 72.5 | 96.1 | 116 | 145 |
| Compressor input for cooling only units | A | 11.5 x 2 / - | 21.3 x 2 | 26.3 x 2 | 34 x 2 | 21.3 x 4 | 26 x 4 |
| Nominal cooling capacity for heat pump | kW | - / 42.2 | 59.5 | 72.5 | 94.9 | 116 | 145 |
| Nominal heating capacity for heat pump | kW | - / 45.2 | 64.2 | 82.7 | 95.4 | 120 | 145 |
| Compressor input in cooling for heat pump | A | - / 15.9 | 22 | 26.5 | 45.3 | 85.2 | 104 |
| Compressor input in heating for heat pump | A | - / 16.7 | 22.8 | 27.1 | 47.5 | 88 | 108 |
| Electrical supply | V/ph/Hz | 400 / 3 / 50 + E | | | | | |
| Total fan input | A | 3.45 x 2 / 3.1 x 2 | 5.0 x 2 | 6.4 x 2 | 6.9 x 2 | 9.9 x 2 | 11 x 2 |
| Unit water volume | Litres | 9.51 / 25 | 28 | 38.2 | 38.2 | 78.5 | 73.5 |
| Air flow for 50 pa static pressure | $m^3/h$ | 13 200 / 13 268 | 20 122 | 23 300 | 28 834 | 32 400 | 36 200 |
| Air flow for 200 pa static pressure | $m^3/h$ | 10 000 / 9 600 | 15 600 | 18 480 | 23 755 | 26 900 | 31 300 |
| Pressure drop for cooling only | kPa | 28 / - | 43.5 | 57 | 94 | 21 | 45 |
| Pressure drop in cooling for heat pump | kPa | - / 16.4 | 43.5 | 56.6 | 94 | 21 | 45 |
| Pressure drop in heating for heat pump | kPa | - / 16.0 | 36.6 | 55.0 | 93 | 20 | 44 |
| Sound power level (1) | dB(A) | 83 / 79 | 81 | 82 | 84 | 86 | 90 |
| Sound pressure level At 5 m (1) | dB(A) | 61 / 57 | 59 | 60 | 62 | 64 | 70 |
| Sound pressure level At 10 m (1) | dB(A) | 55 / 51 | 53 | 54 | 56 | 58 | 62 |
| Weight for cooling only | kg | 633 / - | 816 | 962 | 1 133 | 1 450 | 1 604 |
| Weight for heat pump | kg | - / 715 | 857 | 987 | 1 146 | 1 469 | 1 619 |

*Nominal cooling capacity based on: leaving water temperature: +7ºC - Ambient air temperature: 35ºC DB* — *H = Heat pump*

*Nominal heating capacity based on: leaving water temperature: +45ºC - Ambient air temperature: 7ºC DB / 6ºC WB* — *YLCC 40 (cooling only) - YLCC 42-H (heat pump)*

*(1) Preliminary data subject to change - indoor sound power level*

** Model 42 only available on heat pump*

### Compatibility table / Codes

| Cooling only horizontal discharge unit | | **N/A** | **YLCC 62** | **YLCC 82** | **YLCC 102** | **YLCC 122** | **YLCC 152** |
|---|---|---|---|---|---|---|---|
| | Code | N/A | 668546280 | 668548280 | 668541080 | 668541280 | 668541580 |
| Cooling only vertical discharge unit | | **YLCC 40 ****** | **YLCC 62-V** | **YLCC 82-V** | **YLCC 102-V** | **YLCC 122-V** | **YLCC 152-V** |
| | Code | 668514082 | 668546281 | 668548281 | 668541081 | 668541281 | 668541581 |
| Heat pump horizontal discharge unit | | **YLCC 42-H** | **YLCC 62-H** | **YLCC 82-H** | **YLCC 102-H** | **YLCC 122-H** | **YLCC 152-H** |
| | Code | 668644280 | 668646280 | 668648280 | 668641080 | 668641280 | 668641580 |
| Heat pump vertical discharge unit | | **YLCC 42-HV** | **YLCC 62-HV** | **YLCC 82-HV** | **YLCC 102-HV** | **YLCC 122-HV** | **YLCC 152-HV** |
| | Code | 668644281 | 668646281 | 668648281 | 668641081 | 668641281 | 668641581 |

### Options (factory fitted) **

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| LAK (-18ºC) | Code | 613116082 | | 613111082 | | 613111282 | |
| Shut off valve HP and LP | Code | 613074081 | 613076081 | 613078081 | 613071081 | 613071282 | 613071581 |
| Anticorrosion coated condenser fins | Code | 611080420 | 611080620 | 611080820 | 611080102 | 611080122 | 611080152 |

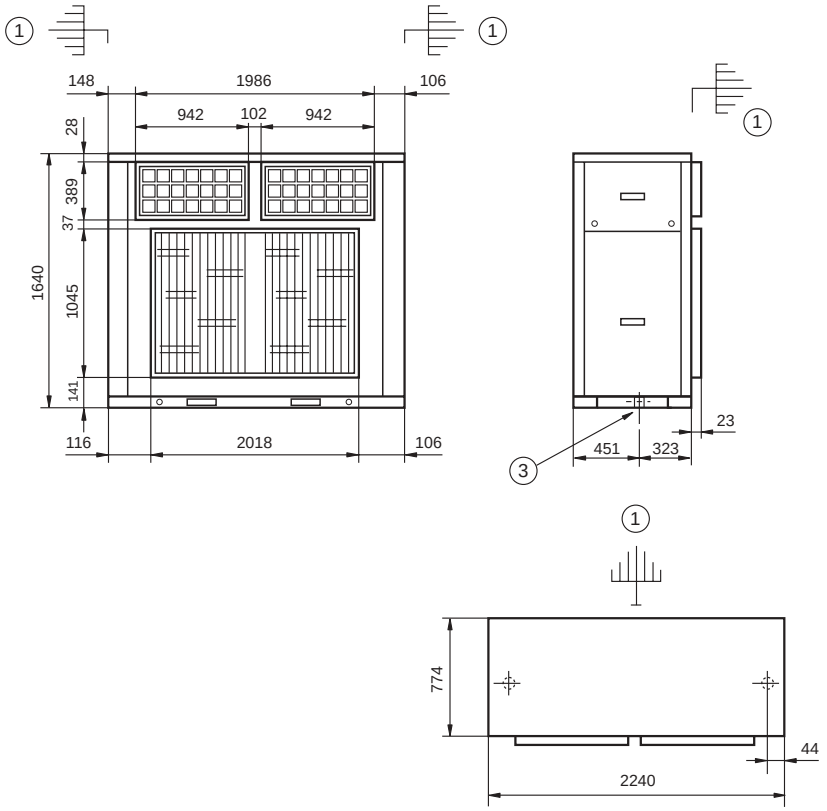
### Accessories (supplied loose) **

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AVM mounting | Code | 613028080 | | 613028180 | | 613028580 | |
| Flow switch | Code | 611992021 | | | | | |
| Remote control | Code | 613802011 | | | | | |
| BMS communication | Code | 613802021 | | | | | |
| Hydro kit models | | **GH 200** | **GH 260** | | **GH 600 S** | | **GH 600 P** |

** Options and Accessories for model YLCC 40 contact York

# Dimensions, space requirements and hydraulic connections

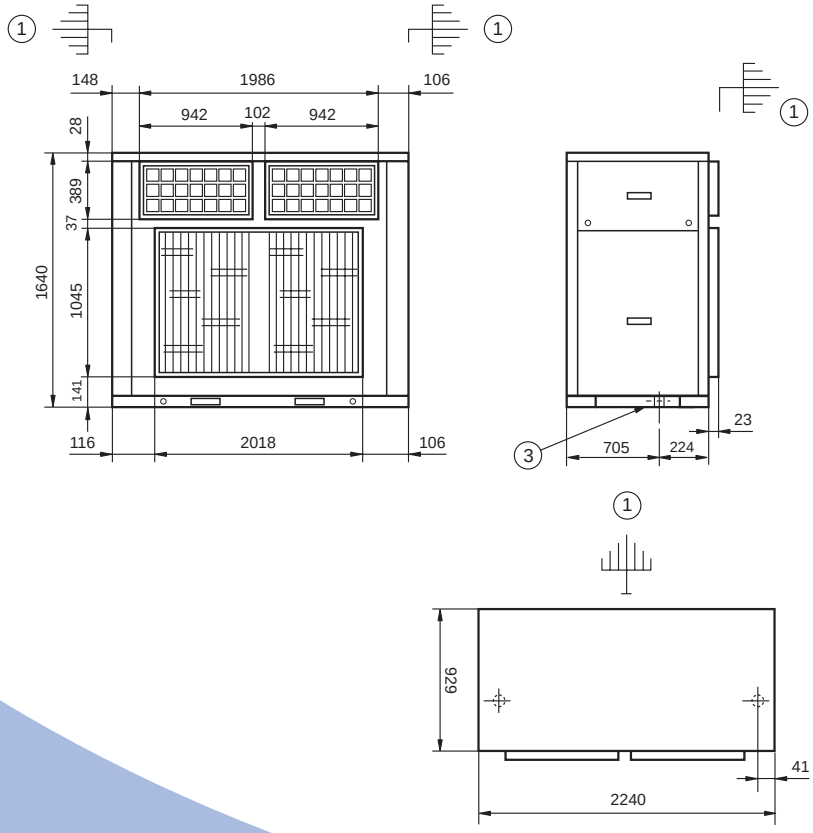
**YLCC-H-42** For YLCC 40 contact York



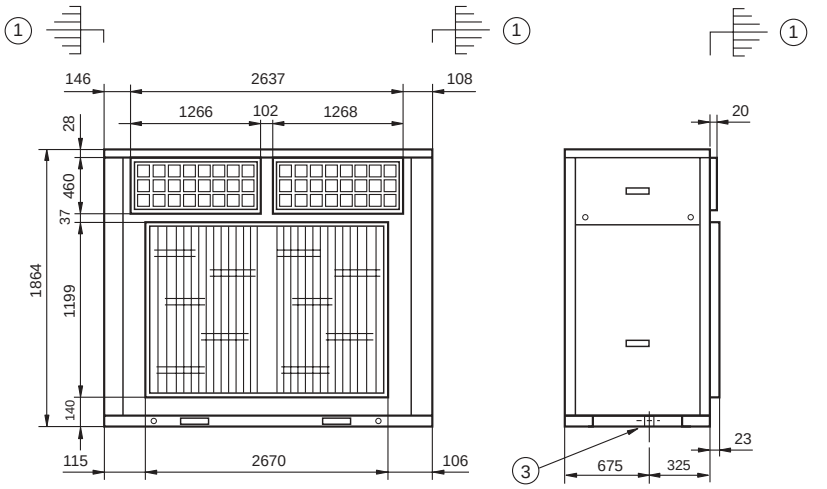

1. Minimum free space (1000 mm)
2. Minimum free space (500 mm)
3. Draining 28 external, length 30 mm (on both side)
4. Water connection F 2" Gas
5. Electrical connection 22 (3) 28,6 (1) 38 (1)
6. Water connection F 2 1/2" Gas
7. Water connection F 3" Gas

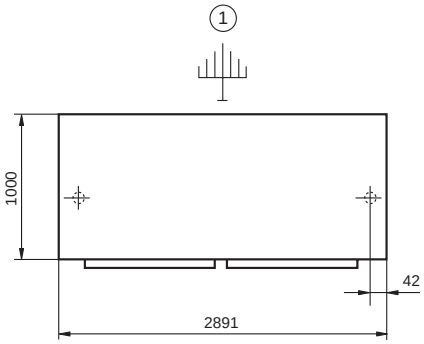
**For vertical discharge contact YORK office**

**YLCC / YLCC-H 62**



### YLCC / YLCC-H-82, 102

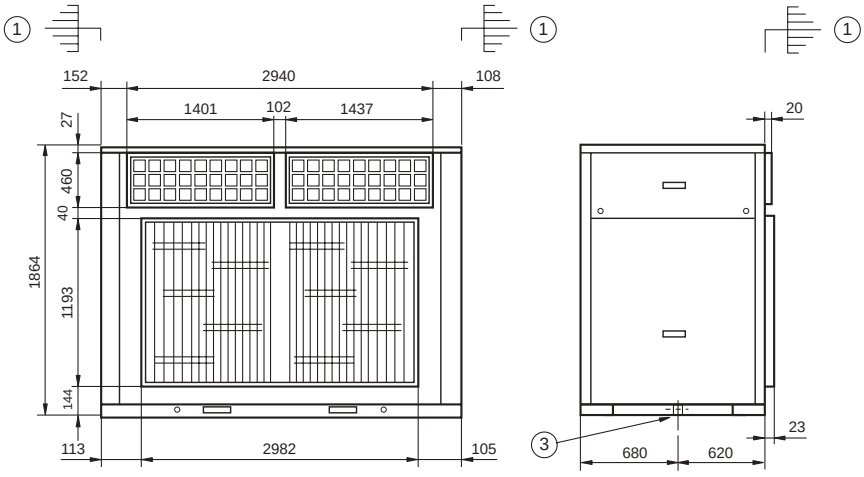


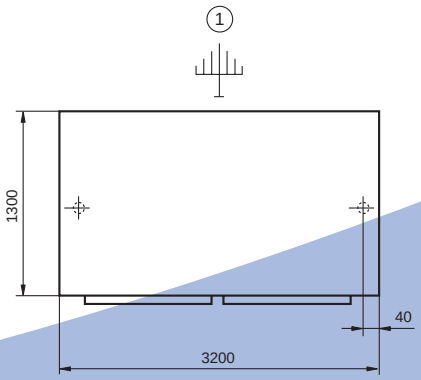




① Minimum free space (1000 mm)
② Minimum free space (500 mm)
③ Draining 28 external, length 30 mm (on both side)
④ Water connection F 2" Gas
⑤ Electrical connection 22 (3) 28,6 (1) 38 (1)
⑥ Water connection F 2 1/2" Gas
⑦ Water connection F 3" Gas

**For vertical discharge contact YORK office**

### YLCC / YLCC-H-122, 152



# Water System

# Hydro kit GH for YCCS and YLCC

- Pump
- Expansion tank
- Buffer tank
- Differential flow switch
- Air bleeding valve
- Service valve
- Automatic filling valve
- Draining valve
- Direct connection to the chiller

GH 140 to 600

YCCS

YLCC 42-152 ②

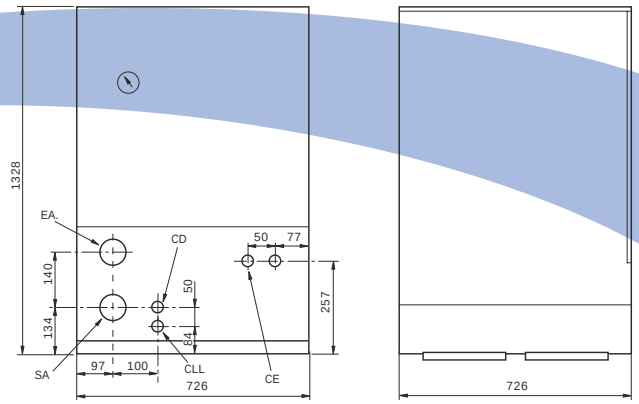


YORK®

# Dimensions and hydraulic connections

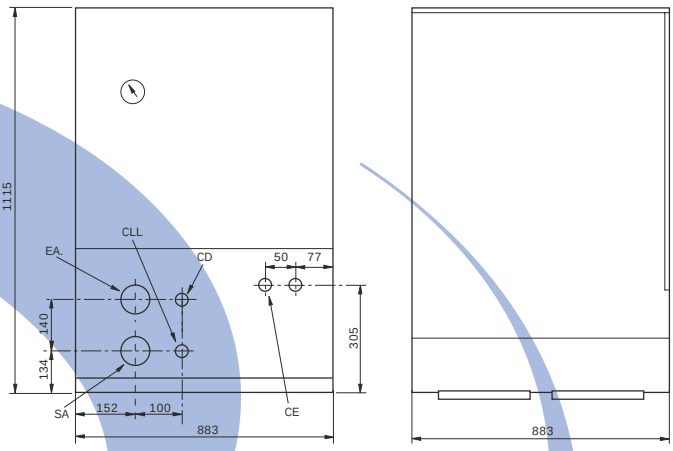
# Water System Hydro kit GH for YCCS and YLCC

## GH 140



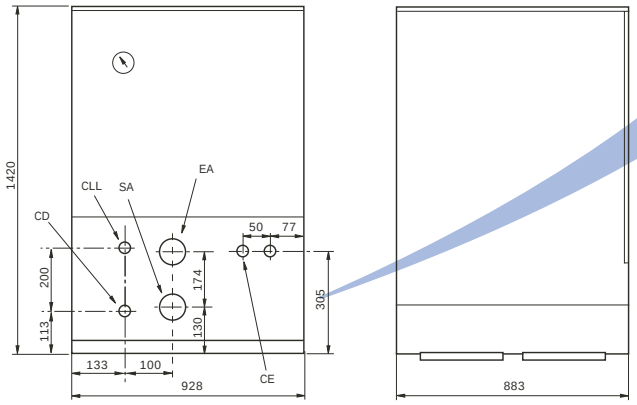

EA: Water intake, 1 1/2" G
SA: Water outlet, 1 1/2" G
CLL: Charge connection, 1/2" G
CD: Drain connection, 1/2" G
CE: Electrical connection (2), dia. 19,7

## GH 200



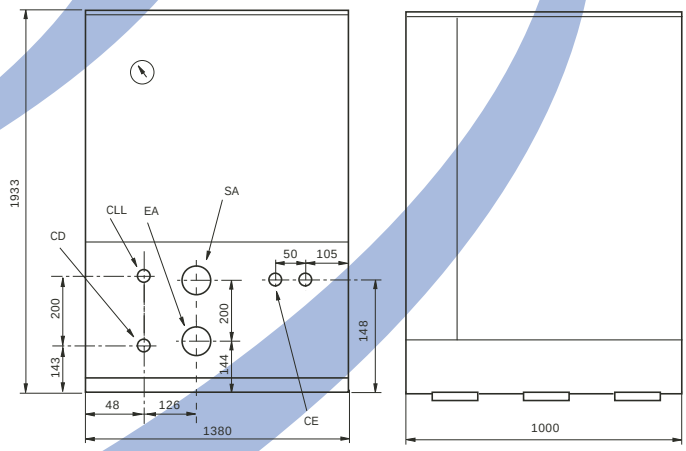

EA: Water intake, 2 1/2" G
SA: Water outlet, 2 1/2" G
CLL: Charge connection, 1/2" G
CD: Drain connection, 1/2" G
CE: Electrical connection (2), dia. 19,7

## GH 260




EA: Water intake, 2 1/2" G
SA: Water outlet, 2 1/2" G
CLL: Charge connection, 1/2" G
CD: Drain connection, 1/2" G
CE: Electrical connection (2), dia. 19,7

## GH 600 S / 600 P




EA: Water intake, 3" G
SA: Water outlet, 3" G
CLL: Charge connection, 1/2" G
CD: Drain connection, 1/2" G
CE: Electrical connection (2), dia. 19,7

## Technical data

| Models | | | GH 140 | GH 200 | GH 260 | GH 600 S | GH 600 P |
|---|---|---|---|---|---|---|---|
| Corresponding unit | | | YCCS 25-30 | YCCS 40 / YLCC 42 | YLCC 62-82 | YLCC 102-122 | YLCC 152 |
| Buffer tank | Capacity | Litres | 131 | 201 | 258 | 605 | 605 |
| | Max pressure | bar | 6 | | | | |
| Expansion vessel | Capacity | Litres | 8 | 12 | 18 | 35 | 35 |
| Pump | Power supply | V/Ph/Hz | 400/3/50 | | | | |
| | Motor | kW | 0.84 | 1.05 | 1.46 | 1.9 | 3 |
| | Consumption | Amp | 1.6 | 1.9 | 2.8 | 4.5 | 6.6 |
| Safety valve rating | | bar | 3 | | | | |
| Weight | | kg | 118 | 137 | 172 | 387 | 427 |

## Compatibility table / Codes

| Models | | GH 140 | GH 200 | GH 260 | GH 600 S | GH 600 P |
|---|---|---|---|---|---|---|
| | Code | 613991402 | 613992002 | 613992601 | 613996001 | 613996011 |

# Water System

# Fan Coil Unit LASER
# 2 & 4 pipe system

- Option front air intake
- 6 speed fan
- Cabinet factory fitted
- Valve factory fitted
- Electrical heater factory fitted
- Optional plenum
- Up to 110 pa static pressure
- Thermal or modulating valve
- Service valve

**Selection software**
Contact your York Office

**WITH CABINET**

**WITHOUT CABINET**

A complete range from
1 kW to 9.5 kW

**CSL00 (Built in)**
**CSR00 (Wall mounted)**
Fan speed selector

**CML00 (Built in)**
**CMR00 (Wall mounted)**
Thermostat with manual fan speed and S/W change over

**CEL00 (Built in)**
**CER00 (Wall mounted)**
Thermostat with manual fan speed and automatic change over

**CEL20 (Built in)**
**CER20 (Wall mounted)**
Thermostat with auto. fan speed and automatic change over

**CEL30 (Built in)**
**CER30 (Wall mounted)**
Thermostat with auto. fan speed and automatic change over for modulating valve

**Technical data**

| | | YLV, YLV-AF, YLH, YLH-AF, YLIV, YLIV-AF, YLIH, YLIH-AF | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Model** | | **110** | **112** | **114** | **216** | **218** | **220** | **222** | **224** | **226** | **228** |
| Cooling capacity (1) | W | 1160 | 1640 | 2200 | 3360 | 3580 | 5140 | 5630 | 6970 | 7410 | 9500 |
| Heating capacity (2) | W | 1570 | 2160 | 3050 | 4110 | 4950 | 6480 | 7190 | 8710 | 9330 | 11800 |
| Pressure drop (4) | kPa | 3,4 | 7,1 | 5,8 | 11,3 | 13,6 | 24,1 | 28,4 | 18,8 | 21 | 36,9 |
| Power supply | V/Ph/Hz | 230 / 1 / 50 + E | | | | | | | | | |
| Input | W | 46 | 48 | 57 | 81 | 86 | 107 | 126 | 147 | 162 | 211 |
| Sound power level (3) | dB(A) | 40 | 50 | 53 | 53 | 55 | 55 | 59 | 60 | 63 | 67 |
| Sound pressure level at 3 m (3) | dB(A) | 22 | 32 | 35 | 35 | 37 | 37 | 41 | 42 | 45 | 49 |
| Water connections | inch | 1/2 “ | | | | | | | | | |

*Dimensions indicated next page*
*(1) Cooling capacities based on 7ºC EWT Δt 5ºC indoor temperature 27ºC DB / 19ºC WB - (2 pipes - high speed fan) (2 rows)*
*(2) Heating capacities based on 50ºC EWT at nominal flow rate indoor temperature 20ºC - (2 pipes - high speed fan) (2 rows)*
*(3) Sound level at high speed fan*
*(4) In cooling mode*
*For other conditions contact York international*



YORK®

# Water System Fan coil LASER
## 1 to 9.5 kW

| Model | | 110 | 112 | 114 | 216 | 218 | 220 | 222 | 224 | 226 | 228 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **With Cabinet** | | | | | | | | | | | |
| YLV-YLH | 2 rows | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | 3 rows | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | 4 rows | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| YLV-YLH/AF | 2 rows | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Front air intake | 3 rows | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | 4 rows | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| **Without Cabinet** | | | | | | | | | | | |
| YLIV-YLIH | 2 rows | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | 3 rows | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | 4 rows | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| YLIV-YLIH/AF | 2 rows | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Front air intake | 3 rows | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | 4 rows | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

**Options (factory fitted)**

| Model | | 110 | 112 | 114 | 216 | 218 | 220 | 222 | 224 | 226 | 228 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Coil and heaters** | | | | | | | | | | | |
| 1 row heating | BA1 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Kit electrical heater (with relay and safety switch) | KREL | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| **Built in thermostat** | | | | | | | | | | | |
| Fan speed selector | CSL00 | | | | | | ● | | | | |
| Thermostat with manual fan speed and S/W change over | CML00 | | | | | | ● | | | | |
| Thermostat with manual fan speed, dead band, automatic change over | CEL00 | | | | | | ● | | | | |
| Thermostat with automatic fan speed, dead band, automatic change over | CEL20 | | | | | | ● | | | | |
| Thermostat with automatic fan speed, dead band, automatic change over for modulating valve | CEL30 | | | | | | ● | | | | |
| **Parallel connection** | | | | | | | | | | | |
| For ON/OFF valve one/FCU | CBL20 | | | | | | ● | | | | |
| For modulating valve one/FCU | CBL30 | | | | | | ● | | | | |
| **3 way valve factory fitted** | | | | | | | | | | | |
| For 2 pipe systems ON/OFF | H3A2 (2p) | | | | | | ● | | | | |
| For 4 pipe systems ON/OFF | H3A2 (4p) | | | | | | ● | | | | |
| **3 way modulating valve factory fitted** | | | | | | | | | | | |
| For 2 pipe systems Modulating | J3AM (2p) | | | | | | ● | | | | |
| For 4 pipe systems Modulating | J3AM (4p) | | | | | | ● | | | | |
| **Shut off valves factory fitted** | | | | | | | | | | | |
| For 2 pipe systems | DT (2p) | | | | | | ● | | | | |
| For 4 pipe systems | DT (4p) | | | | | | ● | | | | |
| **Condensate pump** | PC | | | | | | ● | | | | |
| **WS sensor change over for CEL/CER** | WS | | | | | | ● | | | | |
| **Minimum temperature thermostat** | TM | | | | | | ● | | | | |

**Accessories (supplied loose)**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Remote controllers and thermostat (wall mounted)** | | | | | | | | | | | |
| Fan speed selector | CSR00 | | | | | | ● | | | | |
| Thermostat with manual fan speed and S/W change over | CMR00 | | | | | | ● | | | | |
| Thermostat with manual fan speed, dead band, automatic change over | CER00 | | | | | | ● | | | | |
| Thermostat with automatic fan speed, dead band, automatic change over | CER20 | | | | | | ● | | | | |
| Thermostat with automatic fan speed, dead band, automatic change over for modulating valve | CER30 | | | | | | ● | | | | |
| **Feets and panel** (1) | | | | | | | | | | | |
| Set of painted feets | CP1 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Set of painted feets + frontal socle | ZL1 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Vertical painted back panel | PPV1 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Horizontal painted back panel | PPH1 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| **Plemums and air intake** (1) | | | | | | | | | | | |
| Air intake plenum | PA | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Air intake plenum with collars | PAS | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 90ºC air intake plenum | PA90 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Air intake duct fitting | RCA | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Air delivery plenum with collars | PM | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 90ºC air delivery plenum | PM90 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

*(1) for check compatibility with the models of FCU see compatibility table on page 82*

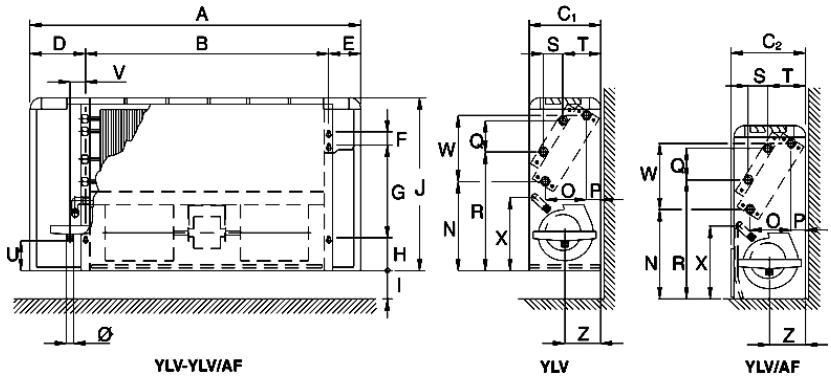
# With cabinet

## LASER SERIES: YLV - YLV/AF

### NOMENCLATURE

| YLV & YLH | YLV-AF & YLH-AF | YLIV & YLIH | YLIV-AF & YLIH-AF |
|---|---|---|---|
| V= vertical | AF= front air intake | V= vertical | AF= front air intake |
| H= horizontal | V= vertical | H= horizontal | V= vertical |
| | H= horizontal | I= without Cabinet | H= horizontal |
| | | | I= without Cabinet |

VERTICAL



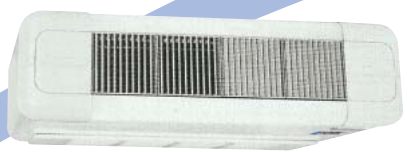

### DIMENSIONS AND WEIGHTS

| Dim | UNIT SIZE 110 | 112 | 114 | 216 | 218 | 220 | 222 | 224 | 226 | 228 |
|---|---|---|---|---|---|---|---|---|---|---|
| A | 648 | 773 | 898 | 1023 | 1148 | 1273 | 1273 | 1523 | 1523 | 1773 |
| B | 374 | 499 | 624 | 749 | 874 | 999 | 999 | 1249 | 1249 | 1499 |
| C[1] | 224 | 224 | 224 | 224 | 224 | 254 | 254 | 254 | 254 | 254 |
| C[2] | 233 | 233 | 233 | 233 | 233 | 263 | 263 | 263 | 263 | 263 |
| D | 174 | 174 | 174 | 174 | 174 | 174 | 174 | 174 | 174 | 174 |
| E | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| F | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| G | 280 | 280 | 280 | 280 | 280 | 356 | 356 | 356 | 356 | 356 |
| H | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 |
| I | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 |
| J | 538 | 538 | 538 | 538 | 538 | 614 | 614 | 614 | 614 | 614 |
| N | 266 | 266 | 266 | 266 | 266 | 299 | 299 | 299 | 299 | 299 |
| O | 113 | 113 | 113 | 113 | 113 | 138 | 138 | 138 | 138 | 138 |

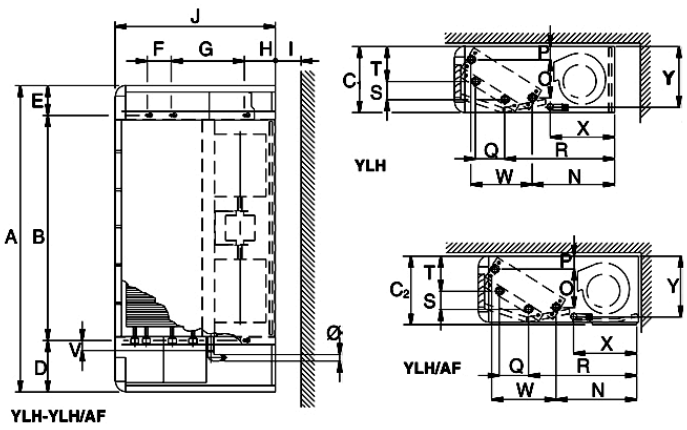
| Dim | UNIT SIZE 110 | 112 | 114 | 216 | 218 | 220 | 222 | 224 | 226 | 228 |
|---|---|---|---|---|---|---|---|---|---|---|
| P | 48 | 48 | 48 | 48 | 48 | 53 | 53 | 53 | 53 | 53 |
| Q | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| R | 355 | 355 | 355 | 355 | 355 | 409 | 409 | 409 | 409 | 409 |
| S | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| T | 117 | 117 | 117 | 117 | 117 | 135 | 135 | 135 | 135 | 135 |
| U | 90 | 90 | 90 | 90 | 90 | 116 | 116 | 116 | 116 | 116 |
| V | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 |
| W | 195 | 195 | 195 | 195 | 195 | 238 | 238 | 238 | 238 | 238 |
| X | 219 | 219 | 219 | 219 | 219 | 252 | 252 | 252 | 252 | 252 |
| Z | 109 | 109 | 109 | 109 | 109 | 122 | 122 | 122 | 122 | 122 |
| ø | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| kg[1] | 18 | 20 | 23 | 28 | 31 | 41 | 44 | 52 | 52 | 58 |
| kg[2] | 19 | 21 | 24 | 30 | 32 | 43 | 46 | 54 | 54 | 61 |

Notes: 1=YLV - 2=YLV/AF (All dimensions in mm)

## LASER SERIES: YLH - YLH/AF



HORIZONTAL



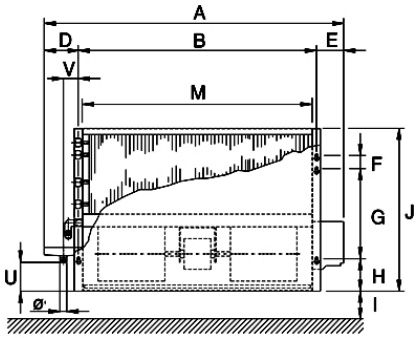

### DIMENSIONS AND WEIGHTS

| Dim | UNIT SIZE 110 | 112 | 114 | 216 | 218 | 220 | 222 | 224 | 226 | 228 |
|---|---|---|---|---|---|---|---|---|---|---|
| A | 648 | 773 | 898 | 1023 | 1148 | 1273 | 1273 | 1523 | 1523 | 1773 |
| B | 374 | 499 | 624 | 749 | 874 | 999 | 999 | 1249 | 1249 | 1499 |
| C[1] | 224 | 224 | 224 | 224 | 224 | 254 | 254 | 254 | 254 | 254 |
| C[2] | 233 | 233 | 233 | 233 | 233 | 263 | 263 | 263 | 263 | 263 |
| D | 174 | 174 | 174 | 174 | 174 | 174 | 174 | 174 | 174 | 174 |
| E | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| F | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| G | 280 | 280 | 280 | 280 | 280 | 356 | 356 | 356 | 356 | 356 |
| H | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 |
| I | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 |
| J | 538 | 538 | 538 | 538 | 538 | 614 | 614 | 614 | 614 | 614 |
| N | 266 | 266 | 266 | 266 | 266 | 299 | 299 | 299 | 299 | 299 |
| O | 113 | 113 | 113 | 113 | 113 | 138 | 138 | 138 | 138 | 138 |
| P | 48 | 48 | 48 | 48 | 48 | 53 | 53 | 53 | 53 | 53 |
| Q | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| R | 355 | 355 | 355 | 355 | 355 | 409 | 409 | 409 | 409 | 409 |
| S | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| T | 117 | 117 | 117 | 117 | 117 | 135 | 135 | 135 | 135 | 135 |
| V | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| W | 195 | 195 | 195 | 195 | 195 | 238 | 238 | 238 | 238 | 238 |
| X | 219 | 219 | 219 | 219 | 219 | 252 | 252 | 252 | 252 | 252 |
| Y | 205 | 205 | 205 | 205 | 205 | 235 | 235 | 235 | 235 | 235 |
| ø | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| kg[1] | 18 | 20 | 23 | 28 | 31 | 41 | 44 | 52 | 52 | 58 |
| kg[2] | 19 | 21 | 24 | 30 | 32 | 43 | 46 | 54 | 54 | 61 |

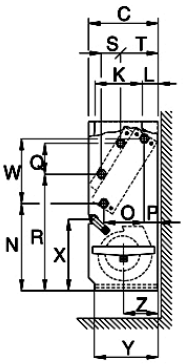
Notes: 1=YLH - 2=YLH/AF (All dimensions in mm)

## LASER SERIES: YLIV - YLIV/AF

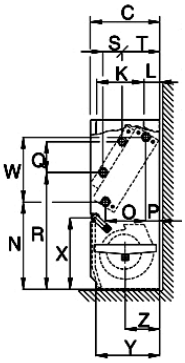
VERTICAL




YLIV-YLIV/AF




YLIV




YLIV/AF

### DIMENSIONS AND WEIGHTS

| | UNIT SIZE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Dim | 110 | 112 | 114 | 216 | 218 | 220 | 222 | 224 | 226 | 228 |
| A | 555 | 680 | 805 | 930 | 1055 | 1180 | 1180 | 1430 | 1430 | 1680 |
| B | 374 | 499 | 624 | 749 | 874 | 999 | 999 | 1249 | 1249 | 1499 |
| C | 215 | 215 | 215 | 215 | 215 | 245 | 245 | 245 | 245 | 245 |
| D | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 |
| E | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 |
| F | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| G | 280 | 280 | 280 | 280 | 280 | 356 | 356 | 356 | 356 | 356 |
| H | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 |
| I | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 |
| J | 505 | 505 | 505 | 505 | 505 | 581 | 581 | 581 | 581 | 581 |
| K | 110 | 110 | 110 | 110 | 110 | 125 | 125 | 125 | 125 | 125 |
| L | 55 | 55 | 55 | 55 | 55 | 60 | 60 | 60 | 60 | 60 |
| M | 349 | 474 | 599 | 724 | 849 | 974 | 974 | 1224 | 1224 | 1474 |
| N | 266 | 266 | 266 | 266 | 266 | 299 | 299 | 299 | 299 | 299 |

| | UNIT SIZE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Dim | 110 | 112 | 114 | 216 | 218 | 220 | 222 | 224 | 226 | 228 |
| O | 113 | 113 | 113 | 113 | 113 | 138 | 138 | 138 | 138 | 138 |
| P | 48 | 48 | 48 | 48 | 48 | 53 | 53 | 53 | 53 | 53 |
| Q | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| R | 355 | 355 | 355 | 355 | 355 | 409 | 409 | 409 | 409 | 409 |
| S | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| T | 117 | 117 | 117 | 117 | 117 | 135 | 135 | 135 | 135 | 135 |
| U | 90 | 90 | 90 | 90 | 90 | 116 | 116 | 116 | 116 | 116 |
| V | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 |
| W | 195 | 195 | 195 | 195 | 195 | 238 | 238 | 238 | 238 | 238 |
| X | 219 | 219 | 219 | 219 | 219 | 252 | 252 | 252 | 252 | 252 |
| Y | 200 | 200 | 200 | 200 | 200 | 230 | 230 | 230 | 230 | 230 |
| Z | 109 | 109 | 109 | 109 | 109 | 122 | 122 | 122 | 122 | 122 |
| ø | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| kg | 10 | 13 | 16 | 19 | 22 | 29 | 31 | 38 | 38 | 42 |

(All dimensions in mm)

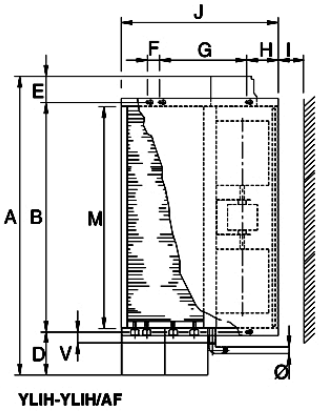
## LASER SERIES: YLIH - YLIH/AF

### DIMENSIONS AND WEIGHTS

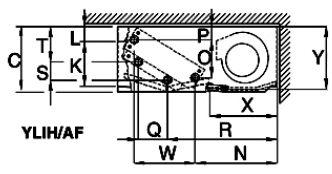
| | UNIT SIZE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Dim | 110 | 112 | 114 | 216 | 218 | 220 | 222 | 224 | 226 | 228 |
| A | 648 | 773 | 898 | 1023 | 1148 | 1273 | 1273 | 1523 | 1523 | 1773 |
| B | 374 | 499 | 624 | 749 | 874 | 999 | 999 | 1249 | 1249 | 1499 |
| C[1] | 224 | 224 | 224 | 224 | 224 | 254 | 254 | 254 | 254 | 254 |
| C[2] | 233 | 233 | 233 | 233 | 233 | 263 | 263 | 263 | 263 | 263 |
| D | 174 | 174 | 174 | 174 | 174 | 174 | 174 | 174 | 174 | 174 |
| E | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |
| F | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| G | 280 | 280 | 280 | 280 | 280 | 356 | 356 | 356 | 356 | 356 |
| H | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 | 101 |
| I | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 | 85 |
| J | 538 | 538 | 538 | 538 | 538 | 614 | 614 | 614 | 614 | 614 |
| N | 266 | 266 | 266 | 266 | 266 | 299 | 299 | 299 | 299 | 299 |
| O | 113 | 113 | 113 | 113 | 113 | 138 | 138 | 138 | 138 | 138 |
| P | 48 | 48 | 48 | 48 | 48 | 53 | 53 | 53 | 53 | 53 |
| Q | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| R | 355 | 355 | 355 | 355 | 355 | 409 | 409 | 409 | 409 | 409 |
| S | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| T | 117 | 117 | 117 | 117 | 117 | 135 | 135 | 135 | 135 | 135 |
| U | 90 | 90 | 90 | 90 | 90 | 116 | 116 | 116 | 116 | 116 |
| V | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 | 47 |
| W | 195 | 195 | 195 | 195 | 195 | 238 | 238 | 238 | 238 | 238 |
| X | 219 | 219 | 219 | 219 | 219 | 252 | 252 | 252 | 252 | 252 |
| Z | 109 | 109 | 109 | 109 | 109 | 122 | 122 | 122 | 122 | 122 |
| ø | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| kg[1] | 18 | 20 | 23 | 28 | 31 | 41 | 44 | 52 | 52 | 58 |
| kg[2] | 19 | 21 | 24 | 30 | 32 | 43 | 46 | 54 | 54 | 61 |

Notes: 1=YLIH - 2=YLIH/AF (All dimensions in mm)

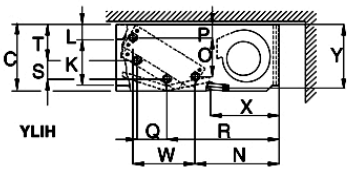
HORIZONTAL




YLIH-YLIH/AF




YLIH/AF



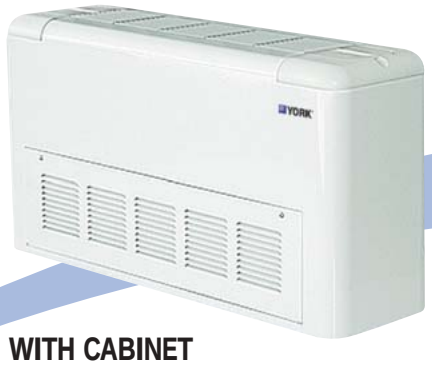

YLIH

# Water System

# Fan Coil Unit LOW BODY
# 2 & 4 pipe system

- 6 speed fan
- Cabinet factory fitted
- Valve factory fitted
- Electrical heater factory fitted
- Thermal or modulating valve
- Service valve

**Selection software**
Contact your York Office



**WITH CABINET**

**WITHOUT CABINET**

**CSL00 (Built in)**
**CSR00 (Wall mounted)**
Fan speed selector

A complete range from
0.8 kW to 2.4 kW

**CML00 (Built in)**
**CMR00 (Wall mounted)**
Thermostat with manual fan speed and S/W change over

**CEL00 (Built in)**
**CER00 (Wall mounted)**
Thermostat with manual fan speed and automatic change over

**CEL20 (Built in)**
**CER20 (Wall mounted)**
Thermostat with auto. fan speed and automatic change over

**CEL30 (Built in)**
**CER30 (Wall mounted)**
Thermostat with auto. fan speed and automatic change over for modulating valve

**Technical data**

| | | | YLVR - YLIVR | | | | |
|---|---|---|---|---|---|---|---|
| **Model** | | | **110** | **112** | **114** | **216** | **218** |
| Cooling capacity (1) | W | 2 rows | 832 | 1054 | 1493 | 2041 | 2356 |
| Cooling capacity (1) | W | 3 rows | 913 | 1266 | 1790 | 2327 | 2714 |
| Heating capacity (2) | W | 1 rows | 1167 | 1691 | 2319 | 3029 | 3552 |
| Pressure drop (3) | | kPa | 7 | 1,7 | 3,8 | 9 | 11,7 |
| Power supply | | V/Ph/Hz | 230 / 1 / 50 + E | | | | |
| Sound power level | | dB(A) | 49 | 50 | 53 | 53 | 55 |
| Sound pressure level at 3 m | | dB(A) | 31 | 32 | 35 | 35 | 37 |
| Water connections | | inch | 1/2 “ | | | | |

*Dimensions indicated next page*
*(1) Cooling capacities based on 7ºC EWT Δt 5ºC indoor temperature 27ºC DB / 19ºC WB - (2 pipes - high speed fan)*
*(2) Heating capacities based on 70ºC EWT Δt 10ºC indoor temperature 20ºC - (2 pipes - high speed fan)*
*(3) In cooling mode 2 rows*
*For other conditions contact York international*

| Model | | 110 | 112 | 114 | 216 | 218 |
|---|---|---|---|---|---|---|
| **With Cabinet** | | | | | | |
| YLVR | 2 rows | ● | ● | ● | ● | ● |
| | 3 rows | ● | ● | ● | ● | ● |
| **Without Cabinet** | | | | | | |
| YLIVR | 2 rows | ● | ● | ● | ● | ● |
| | 3 rows | ● | ● | ● | ● | ● |

**Options (factory fitted)**

| Model | | 110 | 112 | 114 | 216 | 218 |
|---|---|---|---|---|---|---|
| **Coil and heaters** | | | | | | |
| 1 row heating | BA1 | ● | ● | ● | ● | ● |
| Kit electrical heater (with relay and safety switch) | KREL | ● | ● | ● | ● | ● |
| **Built in thermostat** | | | | | | |
| Fan speed selector | CSL00 | | | ● | | |
| Thermostat with manual fan speed and S/W change over | CML00 | | | ● | | |
| Thermostat with manual fan speed, dead band, automatic change over | CEL00 | | | ● | | |
| Thermostat with automatic fan speed, dead band, automatic change over | CEL20 | | | ● | | |
| Thermostat with automatic fan speed, dead band, automatic change over for modulating valve | CEL30 | | | ● | | |
| **Parallel connection** | | | | | | |
| For ON/OFF valve one/FCU | CBL20 | | | ● | | |
| For modulating valve one/FCU | CBL30 | | | ● | | |
| **3 way valve factory fitted** | | | | | | |
| For 2 pipe systems ON/OFF | H3A2 (2p) | | | ● | | |
| For 4 pipe systems ON/OFF | H3A2 (4p) | | | ● | | |
| **3 way modulating valve factory fitted** | | | | | | |
| For 2 pipe systems Modulating | J3AM (2p) | | | ● | | |
| For 4 pipe systems Modulating | J3AM (4p) | | | ● | | |
| **Shut off valves factory fitted** | | | | | | |
| For 2 pipe systems | DT (2p) | | | ● | | |
| For 4 pipe systems | DT (4p) | | | ● | | |
| **Condensate pump** | PC | | | ● | | |
| **WS sensor change over for CEL/CER** | WS | | | ● | | |
| **Minimum temperature thermostat** | TM | | | ● | | |

**Accessories (supplied loose)**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Remote controllers and thermostat (wall mounted)** | | | | | | |
| Fan speed selector | CSR00 | | | ● | | |
| Thermostat with manual fan speed and S/W change over | CMR00 | | | ● | | |
| Thermostat with manual fan speed, dead band, automatic change over | CER00 | | | ● | | |
| Thermostat with automatic fan speed, dead band, automatic change over | CER20 | | | ● | | |
| Thermostat with automatic fan speed, dead band, automatic change over for modulating valve | CER30 | | | ● | | |

*(1) for check compatibility with the models of FCU see compatibility table on page 82*

# WITH CABINET

## NOMENCLATURE

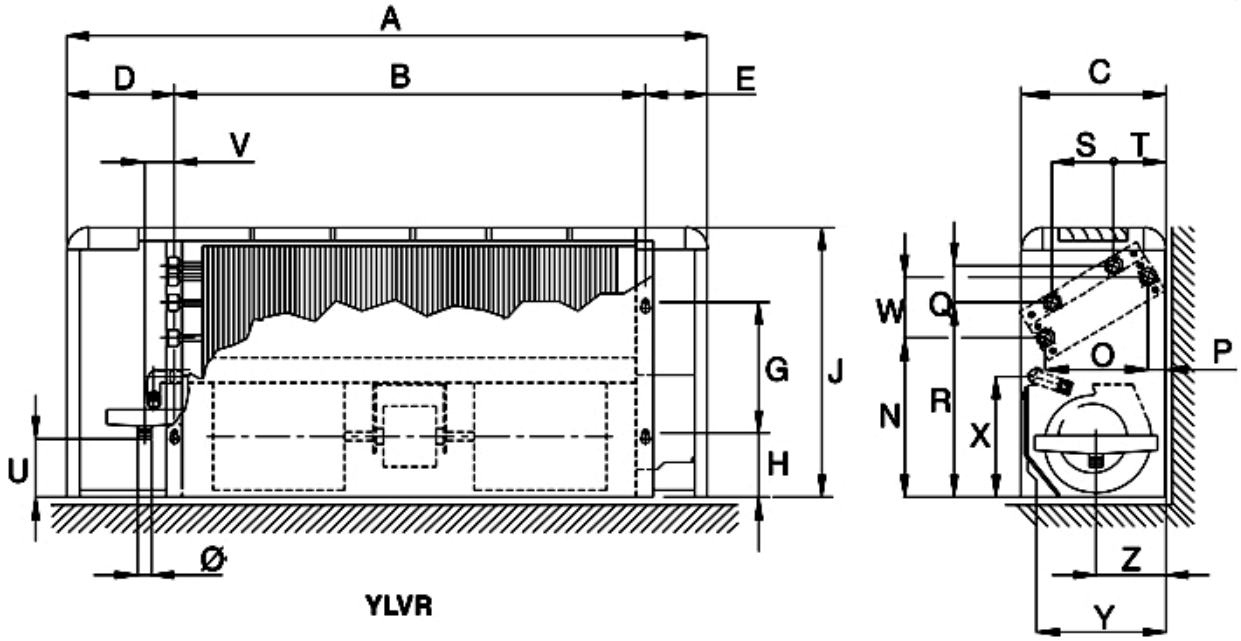
| YLVR | YLIVR |
|---|---|
| ◗ R= low body | ◗ R= low body |
| ◗ V= vertical | ◗ V= vertical |
| | ◗ I= without cabinet |

## LOW BODY: YLVR

### DIMENSIONS AND WEIGHTS

| | UNIT SIZE | | | | |
|---|---|---|---|---|---|
| **Dim** | **110** | **112** | **114** | **216** | **218** |
| A | 648 | 773 | 898 | 1023 | 1148 |
| B | 374 | 499 | 624 | 749 | 874 |
| C | 254 | 254 | 254 | 254 | 254 |
| D | 174 | 174 | 174 | 174 | 174 |
| E | 100 | 100 | 100 | 100 | 100 |
| G | 170 | 170 | 170 | 170 | 170 |
| H | 101 | 101 | 101 | 101 | 101 |
| J | 430 | 430 | 430 | 430 | 430 |
| N | 245 | 245 | 245 | 245 | 245 |
| O | 154 | 154 | 154 | 154 | 154 |
| P | 31 | 31 | 31 | 31 | 31 |
| Q | 47 | 47 | 47 | 47 | 47 |
| R | 304 | 304 | 304 | 304 | 304 |
| S | 88 | 88 | 88 | 88 | 88 |
| T | 87 | 87 | 87 | 87 | 87 |
| U | 65 | 65 | 65 | 65 | 65 |
| V | 47 | 47 | 47 | 47 | 47 |
| W | 84 | 84 | 84 | 84 | 84 |
| X | 214 | 214 | 214 | 214 | 214 |
| Z | 109 | 109 | 109 | 109 | 109 |
| ø | 20 | 20 | 20 | 20 | 20 |
| kg | 15 | 17 | 22 | 23 | 26 |

(All dimensions in mm)



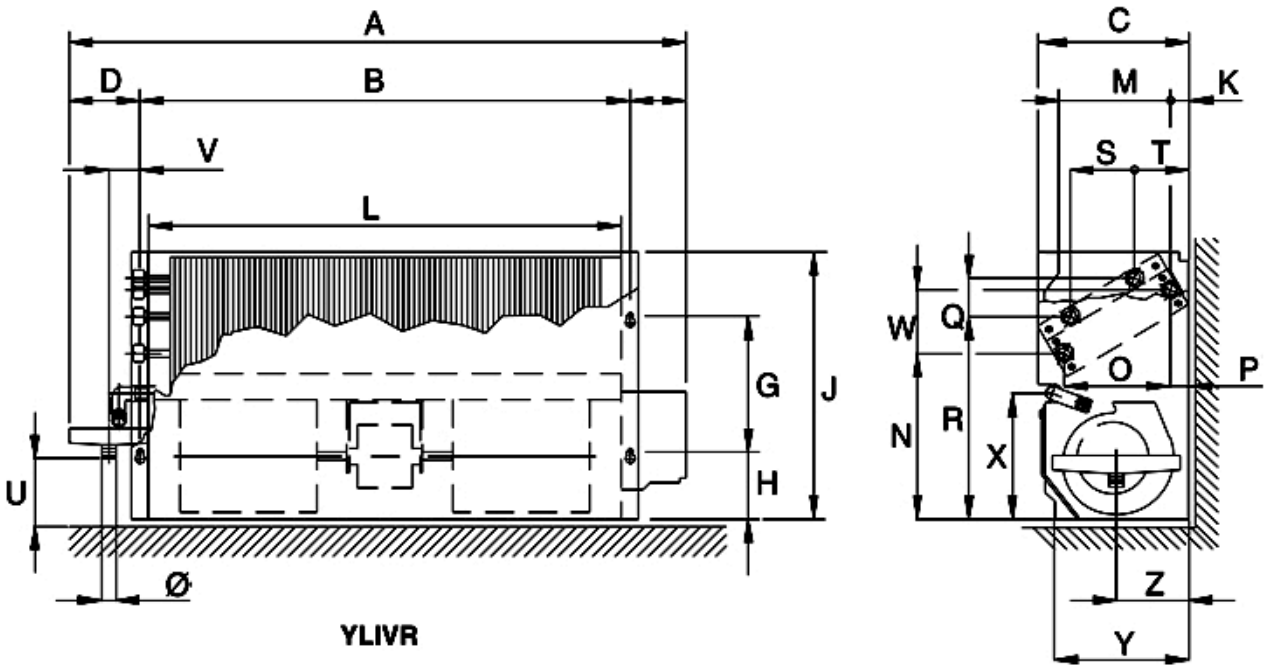

YLVR

## LOW BODY: YLIVR

**DIMENSIONS AND WEIGHTS**

| | UNIT SIZE | | | | |
|---|---|---|---|---|---|
| **Dim** | **110** | **112** | **114** | **216** | **218** |
| A | 555 | 680 | 805 | 930 | 1055 |
| B | 374 | 499 | 624 | 749 | 874 |
| C | 230 | 230 | 230 | 230 | 230 |
| D | 108 | 108 | 108 | 108 | 108 |
| E | 73 | 73 | 73 | 73 | 73 |
| G | 170 | 170 | 170 | 170 | 170 |
| H | 101 | 101 | 101 | 101 | 101 |
| J | 395 | 395 | 395 | 395 | 395 |
| K | 61 | 61 | 61 | 61 | 61 |
| L | 349 | 474 | 599 | 724 | 849 |
| M | 127 | 127 | 127 | 127 | 127 |
| N | 245 | 245 | 245 | 245 | 245 |
| O | 154 | 154 | 154 | 154 | 154 |
| P | 31 | 31 | 31 | 31 | 31 |
| Q | 47 | 47 | 47 | 47 | 47 |
| R | 304 | 304 | 304 | 304 | 304 |
| S | 88 | 88 | 88 | 88 | 88 |
| T | 87 | 87 | 87 | 87 | 87 |
| U | 65 | 65 | 65 | 65 | 65 |
| V | 47 | 47 | 47 | 47 | 47 |
| W | 84 | 84 | 84 | 84 | 84 |
| X | 214 | 214 | 214 | 214 | 214 |
| Y | 201 | 201 | 201 | 201 | 201 |
| Z | 109 | 109 | 109 | 109 | 109 |
| ø | 20 | 20 | 20 | 20 | 20 |
| kg | 9 | 11 | 14 | 16 | 19 |

(All dimensions in mm)




YLIVR

# Water System Compatibility tables for FCU LASER and LOW BODY

**CSL00 (Built in)**
**CSR00 (Wall mounted)**
Fan speed selector

**CML00 (Built in)**
**CMR00 (Wall mounted)**
Thermostat with manual fan speed and S/W change over

**CEL00 (Built in)**
**CER00 (Wall mounted)**
Thermostat with manual fan speed and automatic change over

**CEL20 (Built in)**
**CER20 (Wall mounted)**
Thermostat with auto. fan speed and automatic change over

**CEL30 (Built in)**
**CER30 (Wall mounted)**
Thermostat with auto. fan speed and automatic change over for modulating valve

**FEATURES CEL/CER**

- Dead band for change over 5°C or 2°C (factory set 2°C for 4 pipes and 5ºC for 2 pipes)
- Manual fan speeds or automatic (models 20 and 30)
- Thermostated fan control or continuous fan running
- Option water sensor WS for change over on coil (for 2 pipes)
- Led indicated status summer, winter or dead band
- Temperature setting for 7 to 30°C (comfort 20-25°C)
- Plastic pins for limiting temperature range
- Input for window contact
- Input for Economy/ occupancy mode
- Output for remote alarm
- Filter alarm 600 or 1200 running hours (factory set 1200 hours)
- With electrical heater post ventilation
- With Air sensor in the air intake destratification function (CEL only)

## COMPATIBILITY TABLE THERMOSTAT / VALVES / HEATERS / PARALLEL CONNECTION / WATER SENSOR / MINIMUM TEMPERATURE THERMOSTAT

| Factory fitted thermostat (built in) | | Valves for 2 pipes | | Valves for 4 pipes | | Heaters | Parallel connection | | Water sensor | Min. Temp. Thermostat |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | ON/OFF | Modulating | | |
| | | H3A2 (2p) | J3AM (2p) | H3A2 (4p) | J3AM (4p) | KREL | CBL20 | CBL30 | WS | TM |
| CSL00 | Fan speed selector | | | | | | ● | | | ● |
| CML00 | Thermostat with manual fan speed and S/W change over | ● | | ● | | ● | ● | | | ● |
| CEL00 | Thermostat with manual fan speed, dead band, automatic change over | ● | | ● | | ● | ● | | ● | ● |
| CEL20 | Thermostat with automatic fan speed, dead band, automatic change over | ● | | ● | | ● | ● | | ● | ● |
| CEL30 | Thermostat with automatic fan speed, dead band, automatic change over for modulating valve | | ● | | ● | ● | | ● | ● | ● |
| **Remote controllers and thermostats (wall mounted)** | | | | | | | | | | |
| CSR00 | Fan speed selector | | | | | | ● | | | ● |
| CMR00 | Thermostat with manual fan speed and S/W change over | ● | | ● | | ● | ● | | | ● |
| CER00 | Thermostat with manual fan speed, dead band, automatic change over | ● | | ● | | ● | ● | | ● | ● |
| CER20 | Thermostat with automatic fan speed, dead band, automatic change over | ● | | ● | | ● | ● | | ● | ● |
| CER30 | Thermostat with automatic fan speed, dead band, automatic change over for modulating valve | | ● | | ● | ● | | ● | ● | ● |

● *Compatible*

*Not compatible*



YORK®

# Compatibility tables for FCU LASER and LOW BODY

## COMPATIBILITY OPTIONS / ACCESSORIES / MODELS

| | | STANDARD | | | | | | | | LOW BODY | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | LASER | | | | CONCEALED | | | | | |
| Code | designation | YLV | YLH | YLV-AF | YLH-AF | YLIV | YLIH | YLIV-AF | YLIH-AF | YLVR | YLIVR |
| **Coils and heaters**** | | | | | | | | | | | |
| BA1** | Additionnal 1 row heating | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| KREL** | Kit electrical heater with safety thermostat and relay | ● | ● | ● | ● | ● | ● | ● | ● | | |
| **Factory fitted thermostat** | | | | | | | | | | | |
| CSL00 | Fan speed selector (buit in) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| CML00 | Thermostat with manual fan speed and S/W change over (buit in) | Compatible with electrical heaters | | | | | | | | ● | ● |
| CEL00 | Thermostat with manual fan speed, dead band, automatic change over (buit in) | Compatible with electrical heaters | | | | | | | | ● | ● |
| CEL20 | Thermostat with automatic fan speed, dead band, automatic change over (buit in) | Compatible with electrical heaters | | | | | | | | ● | ● |
| CEL30 | Thermostat with automatic fan speed, dead band, automatic change over for modulating valves (buit in) | Compatible with electrical heaters | | | | | | | | ● | ● |
| **Remote controllers and thermostats** | | | | | | | | | | | |
| CSR00 | Fan speed selector (wall mounted) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| CMR00 | Thermostat with manual fan speed and S/W change over (wall mounted) | Compatible with electrical heaters | | | | | | | | ● | ● |
| CER00 | Thermostat with manual fan speed, dead band, automatic change over (wall mounted) | Compatible with electrical heaters | | | | | | | | ● | ● |
| CER20 | Thermostat with automatic fan speed, dead band, automatic change over (wall mounted) | Compatible with electrical heaters | | | | | | | | ● | ● |
| CER30 | Thermostat with automatic fan speed, dead band, autom. change over for modulating valves (wall mounted) | Compatible with electrical heaters | | | | | | | | ● | ● |
| CBL20 | Parallel connection for ON/OFF valve | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| CBL30 | Parallel connection for modulating valve | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| **Valves / Condensate pump / Water sensor / Minimum temperature thermostat (Factory fitted)** | | | | | | | | | | | |
| H3A2 (2p) | 3-way 4-ports on/off valves for 2-pipe systems | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| H3A2 (4p) | 3-way 4-ports on/off valves for 4-pipe systems | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| J3AM (2p) | 3-way 4-ports modulating valves for 2-pipe systems | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| J3AM (4p) | 3-way 4-ports modulating valves for 4-pipe systems | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| DT (2p) | Shut-off valves for 2-pipe systems (in addition to H3A2/J3AM valves) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| DT (4p) | Shut-off valves for 4-pipe systems (in addition to H3A2/J3AM valves) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| PC | Condensate pump | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| WS | Water sensor | Compatible with CEL/CER | | | | | | | | | |
| TM | Minimum temperature thermostat | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| **Feets and panels** | | | | | | | | | | | |
| CP1 | Set of painted feet | ● | | | | ● | | | | | |
| ZL1 | Set of feet + frontal socle | ● | | | | ● | | | | | |
| PPV1 | Vertical painted back panel | ● | | ● | | | | | | ● | |
| PPH1 | Horizontal painted back panel | | ● | | ● | | | | | | |
| **External air intake** | | | | | | | | | | | |
| PA | Air intake plenum | | | | | | ● | | | | |
| PAS | Air intake plenum collars | | | | | | ● | | | | |
| PA90° | 90° air intake plenum | | | | | | ● | | | | |
| RCA | Air intake duct fitting | | | | | | ● | | | | |
| PM | Air delivery plenum with collars | | | | | ● | ● | ● | ● | | ● |
| PM90 | 90° air delivery plenum | | | | | ● | ● | ● | ● | | ● |

● Compatible

Compatible with conditions

Not compatible

** Maximum of rows is indicated in the documentation, the maximum number of rows includes the heating row or electrical heater.

# Water System Cassette 600 x 600 2 & 4 pipe system

- Valve kit factory fitted
- Wall mounted control or infrared control
- Integrated condensate pump with alarm level

**HKY-HKH 08-2 to 22-2 (2 pipes)**
**HKY 08-4 to 22-4 (4 pipes)**

Infrared remote control (HKH) (2 pipes only)

Wired control AFC02A (HKY)

Control XE 99 (HKY)

Valve kit factory fitted

A complete range from 2.3 kW to 5.4 kW

**Technical data**

| | | HKY-HKH 2 pipes | | | HKY 4 pipes | | |
|---|---|---|---|---|---|---|---|
| **Model** | | **08-2** | **15-2** | **22-2** | **08-4** | **15-4** | **22-4** |
| Cooling capacity total | W | 2 350 | 3 950 | 5 450 | 2 000 | 3 710 | 4 480 |
| Sensible cooling capacity | W | 1 700 | 2 950 | 3 940 | 1 450 | 2 810 | 3 240 |
| Heating capacity | W | 3 100 | 4 900 | 6 200 | 2 890 | 4 330 | 4 700 |
| Cold water pressure drop at nominal conditions | kpa | 10 | 15 | 17 | 9.5 | 15 | 16.5 |
| Hot water pressure drop at nominal conditions (4 pipes) | kpa | | | | 6.6 | 24.2 | 6 |
| **Electrical data** | | | | | | | |
| Power supply | V/ph/Hz | 230 / 1 / 50 | | | | | |
| Power input at high speed | W | 66 | 59 | 72 | 66 | 59 | 72 |
| **Noise level** | | | | | | | |
| Sound power level | dB(A) | 48 | 52 | 56 | 48 | 52 | 56 |
| Sound pressure level at 3m | dB(A) | 30 | 34 | 38 | 30 | 34 | 38 |
| **Electric heater (accessory) (only 2 pipes)** | | | | | | | |
| Capacity | kW | 2 | 2 | 3 | | | |
| **Connections** | | | | | | | |
| Cold coil | | GM 1/2" | | GM 3/4" | GM 1/2" | | GM 3/4" |
| Hot coil | | GM 1/2" | | | | | |
| Condensate pipe | | 12 mm inside diameter | | | | | |
| **Dimensions and weight with valve** | | | | | | | |
| Unit (W x D x H) | mm | 575 x 575 x 300 | | | | | |
| Panel (W x D x H) | mm | 660 x 660 x 50 | | | | | |
| Weight | kg | 21 | 23.8 | 24.5 | 21 | 23.8 | 24.5 |

*Cooling capacities based on 7ºC EWT Δt 5ºC Indoor temperature 27ºC DB / 19ºC WB*
*Heating capacities based on 50ºC EWT at nominal flow rate Indoor temperature 20ºC (2 pipes)*
*Heating capacities based on 70ºC EWT Δt 10ºC Indoor temperature 20ºC (4 pipes)*



YORK®

# Water System Cassette 600 x 600
## 2.3 to 5.4 kW

## 2 PIPE CASSETTES HKY and HKH

With valve factory fitted

| Models | | HKY 08-2-V | HKY 15-2-V | HKY 22-2-V | HKH 08-2-V | HKH 15-2-V | HKH 22-2-V |
|---|---|---|---|---|---|---|---|
| | Code | 666011261 | 666011861 | 666012461 | 666021271 | 666021871 | 666022471 |

### Options (Factory fitted)

Without valves

| Models | | HKY 08-2 | HKY 15-2 | HKY 22-2 | HKH 08-2 | HKH 15-2 | HKH 22-2 |
|---|---|---|---|---|---|---|---|
| | Code | 666011271 | 666011871 | 666012471 | 666021281 | 666021881 | 666022481 |

With electrical heaters and valve factory fitted

| Models | | HKY 08-2-E-V | HKY 15-2-E-V | HKY 22-2-E-V | HKH 08-2-E-V | HKH 15-2-E-V | HKH 22-2-E-V |
|---|---|---|---|---|---|---|---|
| Heaters | capacities | 2 kW | 2 kW | 3 kW | 2 kW | 2 kW | 3 kW |
| | Code | 666011280 | 666011880 | 666012480 | 666021280 | 666021880 | 666022480 |

Minimum quantity is 20

### Accessories (Supplied loose)

| | | | | | | |
|---|---|---|---|---|---|---|
| AFC02A Control | Code | 611130086 | | Infrared control included | | |
| XE 99 Control | Code | 613909981 | | Infrared control included | | |
| Remote sensor for XE 99 | Code | 613901286 | | Infrared control included | | |
| Valve kit ASV02-K4 1/2" * | Code | 611150461 | N/A | 611150461 | N/A | |
| Valve kit ASV03-K4 3/4" * | Code | N/A | 611150462 | N/A | 611150462 | |
| Heaters | capacities | 2 kW | 3 kW | 2 kW | 3 kW | |
| | Code | 611760231 + 613120051 | 611760331 + 613120051 | 611760231 | 611760331 | |

For HYK it is necessary the contactor

* Drain pan included

## 4 PIPE CASSETTES HKY

With valve factory fitted

| Models | | HKY 08-4-V | HKY 15-4-V | HKY 22-4-V |
|---|---|---|---|---|
| | Code | 666011251 | 666011851 | 666012451 |

### Options (Factory fitted)

Without valves

| Models | | HKY 08-4 | HKY 15-4 | HKY 22-4 |
|---|---|---|---|---|
| | Code | 666011241 | 666011841 | 666012441 |

Minimum quantity is 20

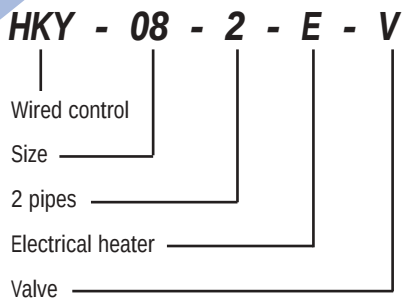
### Accessories (Supplied loose)

| | | | |
|---|---|---|---|
| AFC02A Control | Code | 611130086 | |
| XE 99 Control | Code | 613909981 | |
| Remote sensor for XE 99 | Code | 613901286 | |
| Valve kit ASV01-K4 1/2" hot coil | Code | 611150460 | |
| Valve kit ASV02-K4 1/2" cold coil * | Code | 611150461 | N/A |
| Valve kit ASV03-K4 3/4" cold coil * | Code | N/A | 611150462 |

N/A Not available

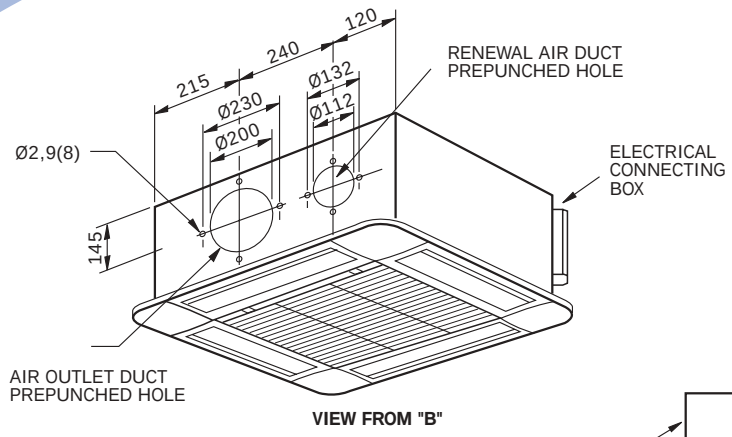
* Drain pan included

## PRODUCT NOMENCLATURE

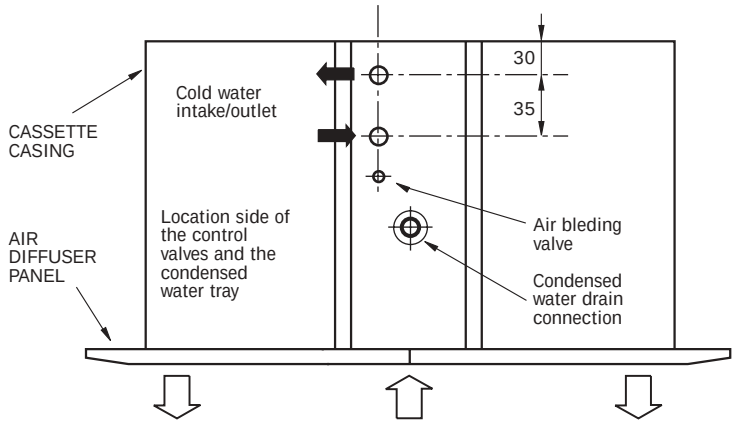


# Dimensions and hydraulic connections

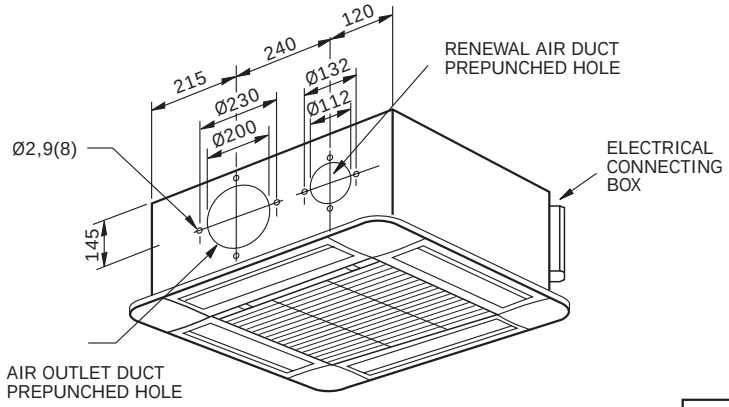
## HKY-HKH 08 / 15 / 22 (2 pipes)

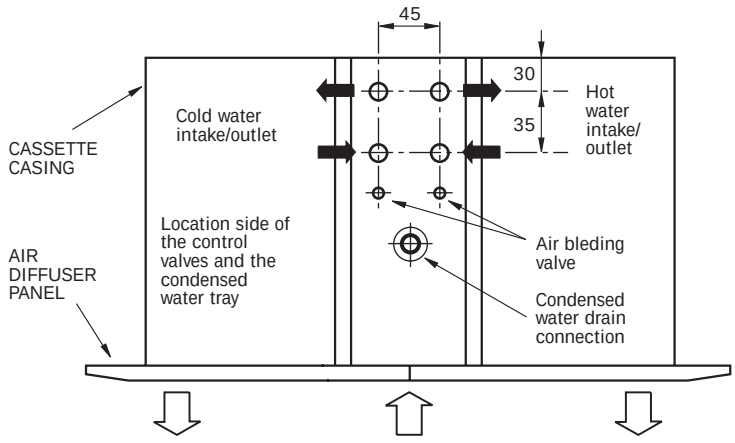



VIEW FROM "B"




## HKY 08 / 15 / 22 (4 pipes)



**Condensate pump with alarm level**

Easy to connect
Save time !

**Removeable electrical box for easy fitting**

**Electrical heater (accessory only for 2 pipes)**

### Valve kit

- Diameter 1/2" for size 08 and 15
- Diameter 3/4" for size 22
- Factory fitted
- Thermal valve ON/OFF
- Insulated drain pan
- With service valve as standard

## Controls

### Infrared remote control (2 pipes only)

- Digital display
- Infra red control
- Set point selection
- Cooling, Heating mode, automatic
- Fan speed selection
- Sleep mode (night operation)
- Timer
- Emergency operation switch
- Auto restarts
- Random start
- 1 stage in cooling mode
- 2 stages in heating mode (heater always second stage)

### Basic control AFC02A

- 3 Operating modes
  - ON/OFF
  - Cooling
  - Heating
- Room temperature setting
- 3 fan speeds
- Auto/continuous fan mode
- 1 stage in cooling mode
- 1 stage in heating mode

### Control XE 99

- Digital display
- Reading set point or ambient temperature
- Mode ON/OFF (continuous running of the fan)
- Mode AUTO (fan stops when set point is reached)
- Cooling or heating
- Energy saving mode (free contact) (clock or door contact for instance)
- 1 stage in cooling mode
- 2 stages in heating mode (2 stages only 2 pipe cassettes)
- Alarm sensor defect
- 3 fan speeds
- Auto restart
- Minimum and maximum set point
- Remote sensor

# Water System Large Cassette

- Wireless/Wired Control
- Dry Mode
- Sleep mode
- Timer
- Auto sweep
- Auto restart
- Thin profile

- Air sweep (HKH)
- Wall mounted control or infrared control
- Integrated condensate pump
- Valve kit

**HKY-HKH 24 to 44**

A range up to 11.6 kW

### Infrared remote control (HKH)

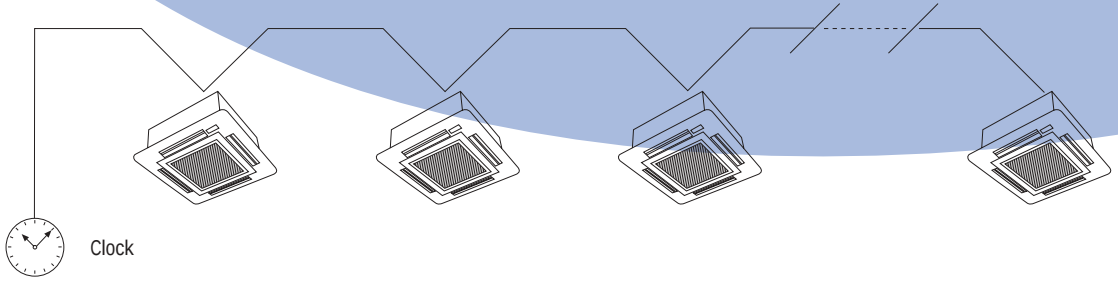
- Wireless or wired version available
- 5 operations modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- Filter cleaning indicator
- LCD display
- Indoor unit LED Diagnostic Function

### Wired control AFC02A (HKY)

- 3 Operating modes
  - ON/OFF
  - Cooling
  - Heating
- Room temperature setting
- 3 fan speeds
- Auto/continuous fan mode
- 1 stage in cooling mode
- 1 stage in heating mode

### Remote start/stop for HKH

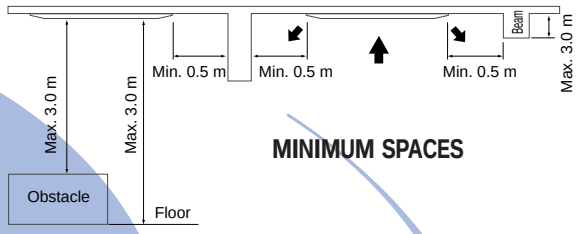
Up to 16 indoor units can be controlled. (Maximum wiring length: 500 m)
With option PCB link.
Number of PCB link = (number of units x 2) - 1



# Water System Large Cassette
## 6.9 to 11.6 kW

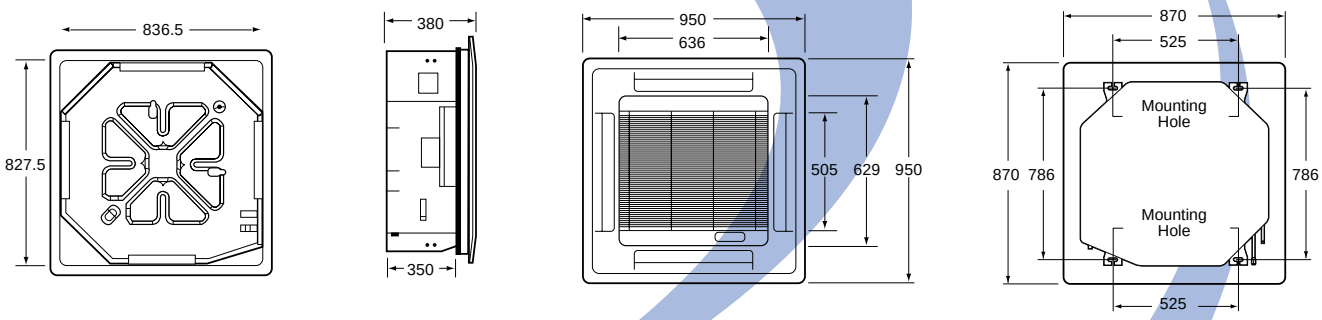
### Valve kit ASV02C

- Pipe connection 3/4”
- Ready to install
- Thermal valve ON/OFF
- Insulated flexible pipes
- Insulated valve body
- With service valve (loose)




**MINIMUM SPACES**

### DIMENSIONS




### Technical data

| Model | | HKY-HKH 24 | HKY-HKH 34 | HKY-HKH 44 |
|---|---|---|---|---|
| Cooling capacity | W | 6 900 | 9 900 | 11 600 |
| Heating capacity | W | 8 300 | 11 500 | 13 500 |
| Power supply | V/Ph/Hz | | 230 / 1 / 50 + E | |
| Fan type | | | Turbo Fan / Direct Drive | |
| Airflow (HS) | m³/h | 1 360 | 1 630 | 1 740 |
| Power input | W | 110 | 125 | 135 |
| Fan motor protection | | | Auto Reset Thermal Overload | |
| **Noise level** | | | | |
| Sound pressure level at 2,5 m LS / MS / HS | dB(A) | 42 / 44 / 47 | 43 / 46 / 49 | 44 / 47 / 51 |
| **Dimensions and weight** | | | | |
| Unit (H x W x D) | mm | | 350 x 836,5 x 827,5 | |
| Panel (H x W) | mm | | 950 x 950 | |
| Weight | kg | | 60 | |
| Condensate drain size | mm | | 19.05 | |
| **Water connections** | | | | |
| Type | | | Male | |
| Diameter Inlet / Outlet | | | 3/4” | |

*Cooling capacities based on 7ºC EWT Δt 5ºC Indoor temperature 27ºC DB / 19ºC WB*
*Heating capacities based on 50ºC EWT at nominal flow rate Indoor temperature 20ºC*

### Accessories

| Model | | HKY 24 | HKY 34 | HKY 44 | HKH 24 | HKH 34 | HKH 44 |
|---|---|---|---|---|---|---|---|
| Valve kit | Code | ASV02C | | | | | |
| PCB link | Code | - | | | 025T 30012-000 | | |
| Wired control | Code | AFC02A | | | Infrared control included | | |

Models HKH must be installed with ON/OFF valve ASV02C.

# Water System High wall

Wireless/Wired Control

Dry Mode

Sleep mode

Timer

Auto sweep

Auto restart

- Wall mounted control or infrared control
- Air sweep (HHH)
- Valve kit ASV01C
- Condensate pump (accessory)

**HHY-HHH 05-07**

**HHY-HHH 11**

A range from 1.5 to 2.8 kW

### Infrared remote control (HHH)

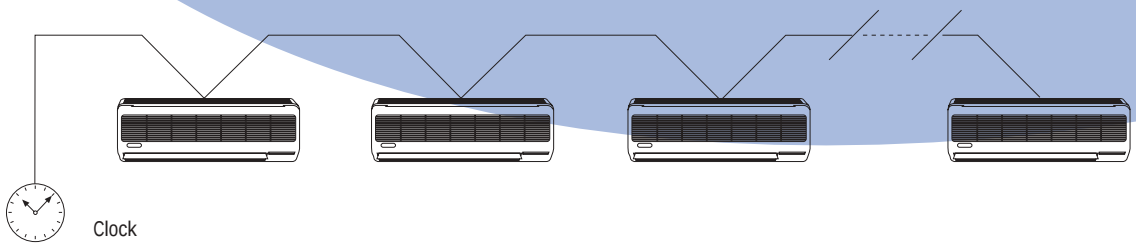
- Wireless or wired version available
- 5 operations modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- Filter cleaning indicator
- LCD display
- Indoor unit LED Diagnostic Function

### Wired control AFC02A (HHY)

- 3 Operating modes
  - ON/OFF
  - Cooling
  - Heating
- Room temperature setting
- 3 fan speeds
- Auto/continuous fan mode
- 1 stage in cooling mode
- 1 stage in heating mode

### Remote start/stop for HHH

Up to 16 indoor units can be controlled. (Maximum wiring length: 500 m)
With option PCB link.
Number of PCB link = (number of units x 2) - 1



# Water System High wall
## 1.5 to 2.8 kW

### Valve kit ASV01C

- Pipe connection 1/2"
- Ready to install
- Thermal valve ON/OFF
- Insulated flexible pipes
- Insulated valve body
- With service valve (loose)

### Condensate pump AMP01B

Float switch

Pump

### Technical data

| Model | | HHY-HHH 05 | HHY-HHH 07 | HHY-HHH 11 |
|---|---|---|---|---|
| Total cooling capacity | W | 1580 | 2190 | 2800 |
| Sensible capacity | W | 1339 | 1856 | 2372 |
| Heating capacity | W | 2250 | 2930 | 3920 |
| **Electrical data** | | | | |
| Supply | V/ph/Hz | 230 / 1 / 50 + E | | |
| Input | W | 20 | 32 | 60 |
| | Amps | 0,09 | 0,13 | 0,28 |
| **Noise level** | | | | |
| Sound power level | dB(A) | 50 | 54 | 57 |
| Sound pressure level at 3m | dB(A) | 32 | 36 | 39 |
| **Dimensions and weight** | | | | |
| Heigh | mm | 290 | | 315 |
| Width | mm | 799 | | 1019 |
| Depth | mm | 181 | | 180 |
| Weight | kg | 8 | | 12 |

*Cooling capacities based on 7ºC EWT Δt 5ºC Indoor temperature 27ºC DB / 19ºC WB*
*Heating capacities based on 50ºC EWT at nominal flow rate Indoor temperature 20ºC*

### Accessories

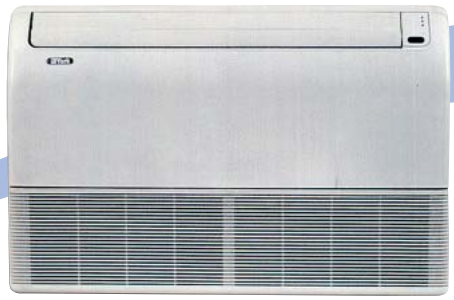
| Model | | HHY 05 | HHY 07 | HHY 11 | HHH 05 | HHH 07 | HHH 11 |
|---|---|---|---|---|---|---|---|
| Unit | | | | | | | |
| Wired control | Code | AFC02A | | | Infrared control included | | |
| Valve kit | Code | ASV01C | | | ASV01C* (Mandatory) | | |
| Condensate pump | Code | AMP01B | | | | | |
| Electrostatic filter | Code | AMA01N | | AMA02N | AMA01N | | AMA02N |
| PCB link | Code | N/A | | | 025T 300012-000 | | |

* Models HHH must be installed with ON/OFF valve ASV01C.

# Water System Convertible console

- Wireless/Wired Control
- Dry Mode
- Sleep mode
- Timer
- Auto sweep
- Auto restart
- Thin profile
- Floor/ceiling

- Wall mounted control or infrared control
- Air sweep (HCH)
- Valve kit ASV01C
- Condensate pump (accessory)
- Floor / ceiling



**HCY-HCH 10 and 14**

4.1 and 5.5 kW

### Infrared remote control (HCH)

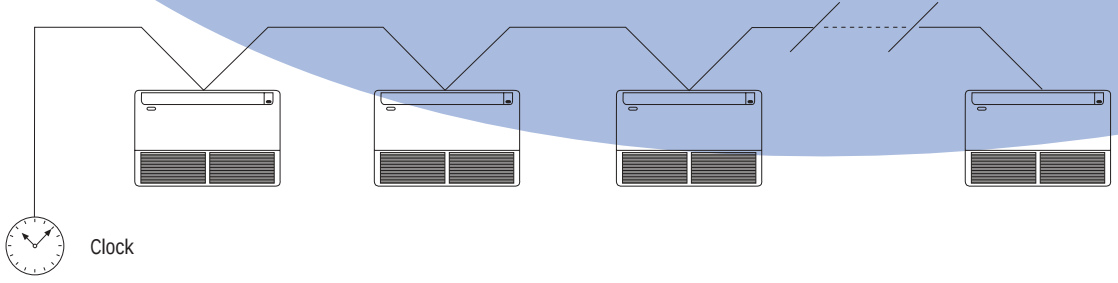
- Wireless or wired version available
- 5 operations modes (Cool/Heat/Auto/Dry/Fan)
- Sleep mode
- Room temperature setting
- Fan speed selection
- Timer
- Filter cleaning indicator
- LCD display
- Indoor unit LED Diagnostic Function

### Wired control AFC02A (HCY)

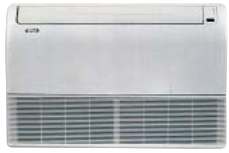
- 3 Operating modes
  - ON/OFF
  - Cooling
  - Heating
- Room temperature setting
- 3 fan speeds
- Auto/continuous fan mode
- 1 stage in cooling mode
- 1 stage in heating mode

### Remote start/stop for HCH

Up to 16 indoor units can be controlled. (Maximum wiring length: 500 m)
With option PCB link.
Number of PCB link = (number of units x 2) - 1



# Water System Convertible console
## 4.1 to 5.5 kW



### Valve kit ASV01C

- Pipe connection 1/2”
- Ready to install
- Thermal valve ON/OFF
- Insulated flexible pipes
- Insulated valve body
- With service valve (loose)

### Condensate pump AMP01B

Float switch

Pump

### Technical data

| Model | | 10 | 14 |
|---|---|---|---|
| Fan speed | | High | High |
| Total cooling capacitiy | W | 4110 | 5550 |
| Sensible capacity | W | 3480 | 4658 |
| Heating capacitiy | W | 5825 | 7770 |
| **Electrical data** | | | |
| Supply | V/ph/Hz | 230 / 1 / 50 + E | |
| Input | W | 63 | 77 |
| | Amps | 0,29 | 0,36 |
| **Noise level** | | | |
| Sound power level | dB(A) | 55 | 56 |
| Sound pressure level at 3m | dB(A) | 37 | 38 |
| **Dimensions and weight** | | | |
| Heigh | mm | 655 | 655 |
| Width | mm | 990 | 990 |
| Depth | mm | 199 | 199 |
| Weight | kg | 27 | 29 |

*Cooling capacities based on 7ºC EWT Δt 5ºC Indoor temperature 27ºC DB / 19ºC WB*
*Heating Capacities based on 50ºC EWT at nominal flow rate Indoor temperature 20ºC*

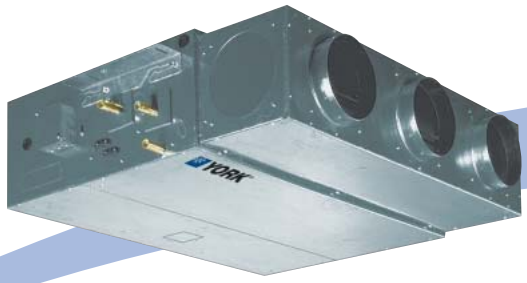
### Accessories

| Model | | HCY 10 | HCY 14 | HCH 10 | HCH 14 |
|---|---|---|---|---|---|
| Wired control | Code | AFC02A | | Infrared control included | |
| Valve kit | Code | ASV01C | | ASV01C * (Mandatory) | |
| Condensate pump | Code | AMP01B | | | |
| PCB link | Code | N/A | | 025T 30012-000 | |

* Models HCH must be installed with ON/OFF valve ASV01C.

# Water System Blowers

- Horizontal or vertical air return
- Twin centrifugal fans
- High static pressure up to 200 pa
- 2 and 4 pipe systems
- Air distribution plenum
- Fresh air intake



*with plenum*

Wall mounted control

*with paint finish*

**YFB 1-6**

A range from 7 to 26 kW

**Technical data**

| Models | | | YFB 1 | YFB 2 | YFB 3 | YFB 4 | YFB 5 | YFB 6 |
|---|---|---|---|---|---|---|---|---|
| Cooling capacity * | | kW | 7 | 10,6 | 15,8 | 17,9 | 22 | 26 |
| Heating capacity * | | kW | 7,9 | 12 | 19,6 | 21,5 | 26 | 30,3 |
| Fans | Airflow | m3/h | 1172 | 1677 | 2604 | 2940 | 3640 | 4600 |
| | Avail. pressure ** | Pa | 100 | 100 | 200 | 200 | 200 | 200 |
| Sound power level | (1) | dB(A) | 48 | 53 | 55 | 63 | 65 | 61 |
| | (2) | | 57 | 62 | 64 | 71 | 73 | 70 |
| Sound pressure level at 3 m | (1) | dB(A) | 30 | 35 | 37 | 45 | 57 | 43 |
| | (2) | | 39 | 44 | 46 | 53 | 55 | 52 |
| Electrical data | Power supply *** | | 230 / 1 / 50 + E | | | | | |
| Dimensions | H | mm | 305 | 305 | 350 | 350 | 350 | 445 |
| | W | mm | 1145 | 1145 | 1345 | 1345 | 1345 | 1650 |
| | D | mm | 745 | 745 | 880 | 880 | 880 | 1030 |
| Net operating weight | (2 pipes) | kg | 51 | 53 | 66 | 70 | 72 | 85 |
| Water connections | Type | mm | Brased cooper unions | | | | | |
| | Diameter | mm | 22 | 22 | 28 | 28 | 35 | 42 |

*Cooling capacities based on 7ºC EWT Δt 5ºC Indoor temperature 27ºC DB / 19ºC WB*
*Heating Capacities based on 50ºC EWT at nominal flow rate Indoor temperature 20ºC*
** Given for High speed fan*
*** Maximum static pressure see engineering guide for the corresponding air flow rate*
**** Electrical Heater supplied with 400 V*
*(1) Duct sound level with unit outside of the room*
*(2) Sound level with the unit in the room*



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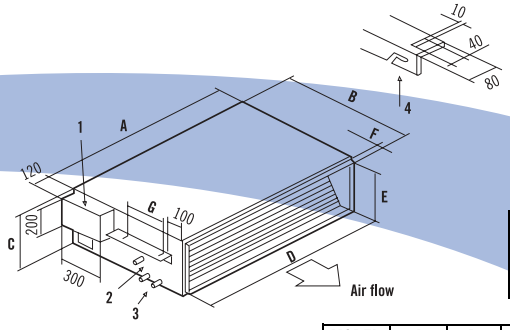
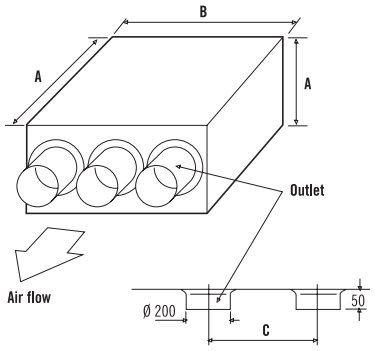
## Dimensions




| | |
|---|---|
| 1 | Wiring Box |
| 2 | Coil Connections |
| 3 | Condensate Drain Connections |
| 4 | Mounting Bracket |

| MODEL | A | B | C | D | E | F | G |
|---|---|---|---|---|---|---|---|
| 1 | 1145 | 745 | 305 | 1115 | 275 | 30 | 245 |
| 2 | 1145 | 745 | 305 | 1115 | 275 | 30 | 245 |
| 3 | 1345 | 880 | 350 | 1315 | 320 | 30 | 350 |
| 4 | 1345 | 880 | 350 | 1315 | 320 | 30 | 350 |
| 5 | 1345 | 880 | 350 | 1315 | 320 | 30 | 350 |
| 6 | 1650 | 1030 | 445 | 1620 | 415 | 30 | 450 |

All dimensions in mm.




| MODEL | A | B | C | OUTLETS |
|---|---|---|---|---|
| 1 | 275 | 1115 | 370 | 3 |
| 2 | 375 | 1115 | 370 | 3 |
| 3 | 320 | 1315 | 320 | 4 |
| 4 | 320 | 1315 | 320 | 4 |
| 5 | 320 | 1315 | 320 | 4 |
| 6 | 415 | 1620 | 320 | 5 |

All dimensions in mm.

### Condensate pump

Float switch

Pump

| Models | | YFB 1 | YFB 2 | YFB 3 | YFB 4 | YFB 5 | YFB 6 |
|---|---|---|---|---|---|---|---|
| **Options (factory fitted)** | | | | | | | |
| **Auxiliary hot water coil** | | ● | ● | ● | ● | ● | ● |
| **Paint finish** | | ● | ● | ● | ● | ● | ● |
| **Electrical heaters** | | | | | | | |
| Capacity | W | 3750 | | 7500 | | | 9000 |
| **Accessories (supplied loose)** | | | | | | | |
| **Valve kits Cazzaniga 3 ways 3 ports** | | | | | | | |
| On/off 2 pipes | Code | 462B30057-000 | | 462B30058-000 | | | 462B30059-000 |
| **Controls** | | | | | | | |
| 2 pipe on/off * Wall mounting 3 m | Code | 463B11001-001 | | | | | |
| 4 pipe on/off * Wall mounting 3 m | Code | 463B11002-001 | | | | | |
| 2 pipe on/off+electrical heater * Wall mounting 3 m | Code | 463B11002-002 | | | | | |
| Discharge plenum | Code | C96775500 | | C96775510 | | | C96775520 |
| Condensate pump | Code | 463B00022-000 | | | | | |

** Cable length 3 m.* *• Available*

YORK®

# Air

## Air Systems

CONFORME NORMAS ISO 9001 AENOR ER-0028/1991

CONFORME NORMAS ISO 14001 AENOR Gestión Ambiental CGM-97/013

EUROVENT CERTIFIED PERFORMANCE

CE

ECHELON®

## Do you know what is behind YKlon ?

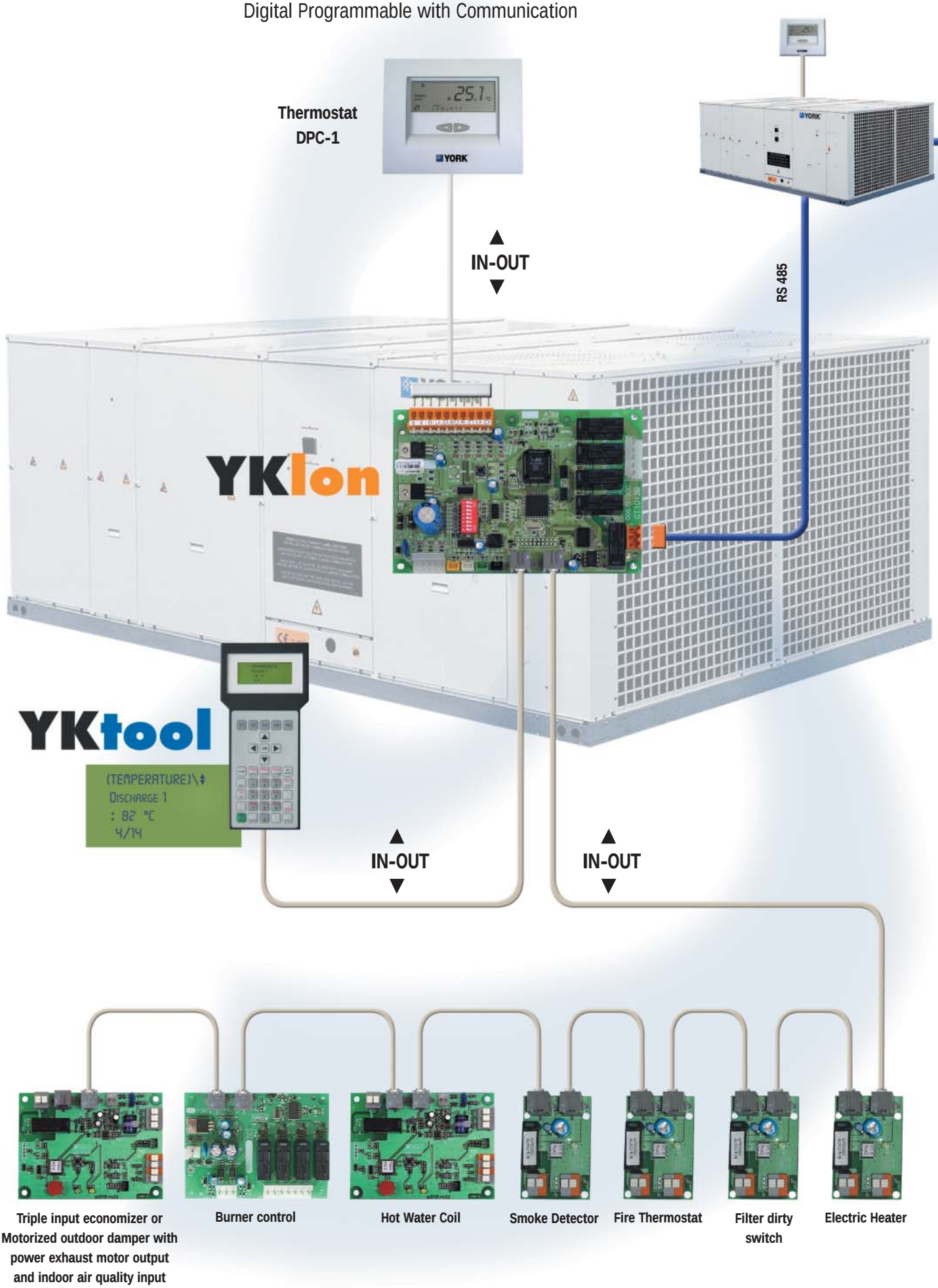
# Systems

**Roomtop**

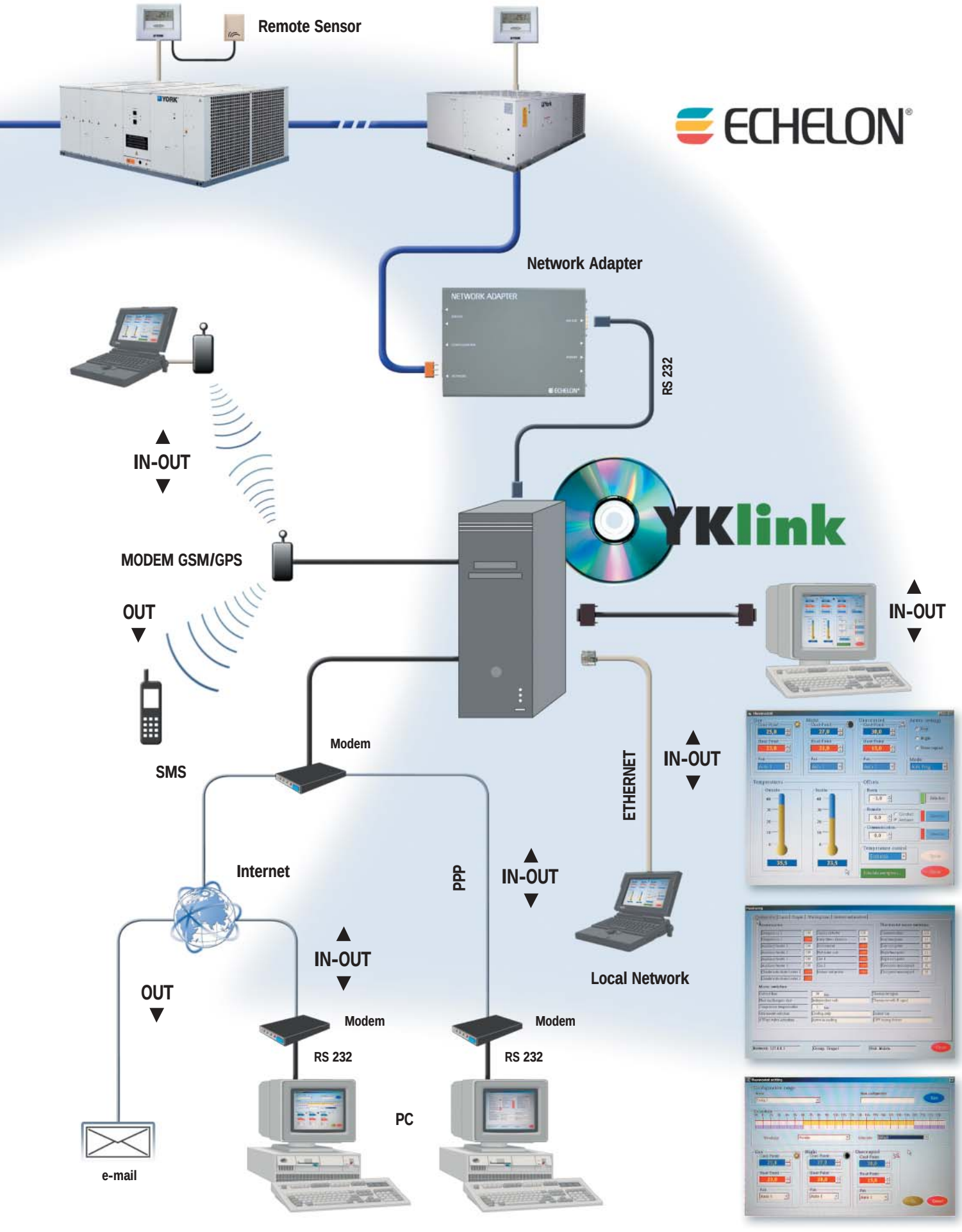
**Rooftop**

**Large Split**

Digital Programmable with Communication



# Advanced Air Control

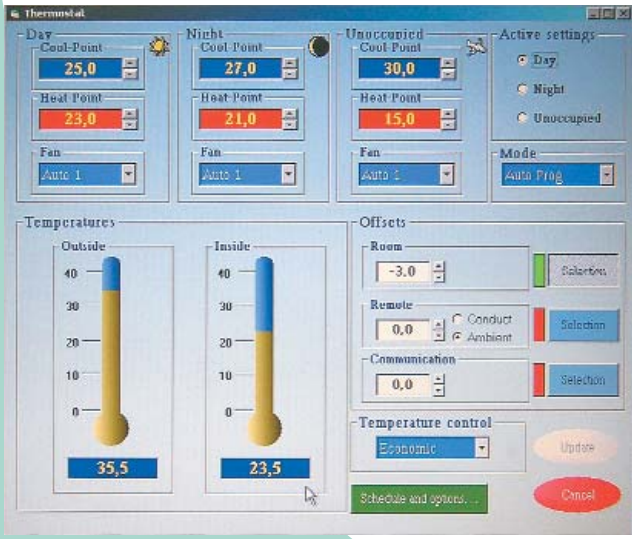


| Codes | Meaning |
|---|---|
| 11 | Circuit 1, Discharge temperature too high or probe short circuit |
| 12 | Circuit 1, High pressure switch, outdoor fan overload or compressor motor protection module |
| 91 | Selected sensor not valid |
| 92 | Indoor sensor not calibrated |
| 93 | Communication alarm |
| 94 | Pin alarm |

**Features and benefits Thermostat DPC-1**

- Day (normal), night (economy) and unoccupied (stand by).
- Lockout code in screen gives direct diagnostics.
- ON/OFF or programmable from dip switch setting.
- Day or night programmable state avoid wide internal temperature variation.
- 5 preset and 1 programmable profile.
- Select the sensor you want to work with (integrated in the thermostat, return air in duct or room sensor).
- Turbo, normal or economy logic from dip switch setting.
- Temperature override.
- From –3°C to +3°C sensor offset.

# YKlink



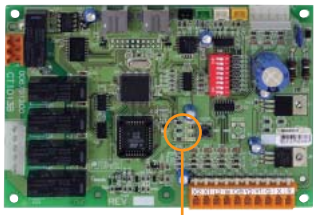

**Features and benefits of YKlink software**

YKlink software is used to set-up and view the operation of units using YKlon's PCB. Installed in a dedicated computer, this software will allow:

- Group control of units working with the same conditions (temperature mode, daily schedule, etc...).
- View parameters such as:
  - Component status.
  - Air and refrigeration circuit temperatures.
  - Accessory status, etc.
- Remote control all DPC-1 thermostat settings: temperature, mode, programming, etc.
- Direct access to the last 10 lockouts and incidents.
- Create network rooftops interconnection where each one has independent regulation.
- Generate business from remote monitoring service contract.
- Provides 24/7 real-time worldwide monitoring on YKlon products.
- Possibility of commissioning service contract.
- Access to the communication network business without relying on personnel with specific BMS knowledge.

# With These Characteristics

## YKlon

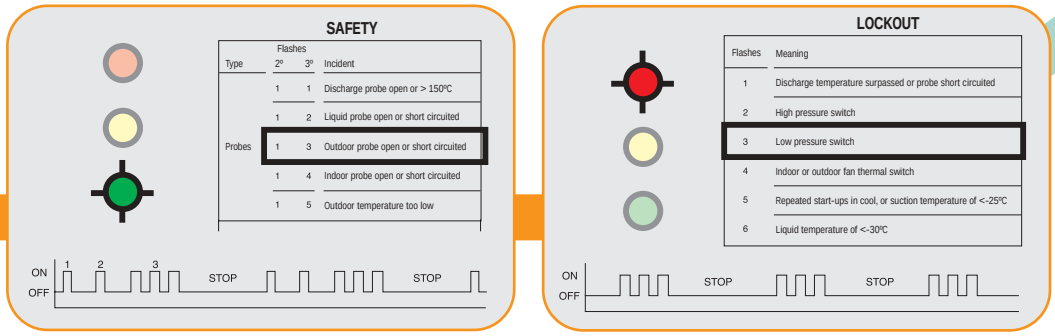


The **YKlon** is a PCB regulating all components and accessories. It will pro actively manage cool and heat stages to maintain a stable room temperature.

Additionally, the benefits are:

- Redundancy on cool and heat stages (if one step is locked out, the PCB starts another one automatically).
- Random start between units to minimise electrical tariff.
- All stages will start in sequence to reduce peak inrush.
- Automatic restart after power failure.
- Reduces nuisance calls by using 3 times "you are out" on all safeties before a hard lockout occurs.
- Compressors run time priority.
- Alarm output relay.
- Led diagnostic code.
- No parameters to check before starting.
- Lockout and incident level of protection.
- Use a standard 2-stage thermostat but get 98% of YKlon features.
- Last 10 lockouts stored in a non-volatile memory.

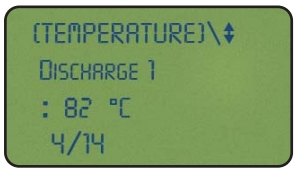
**Led Diagnostic Code**




**Communication program: YKnet**

The YKnet is to create network communication between units equipped with YKlon's PCB. This software will be installed and configured by YORK personnel during commissioning. Consult us.

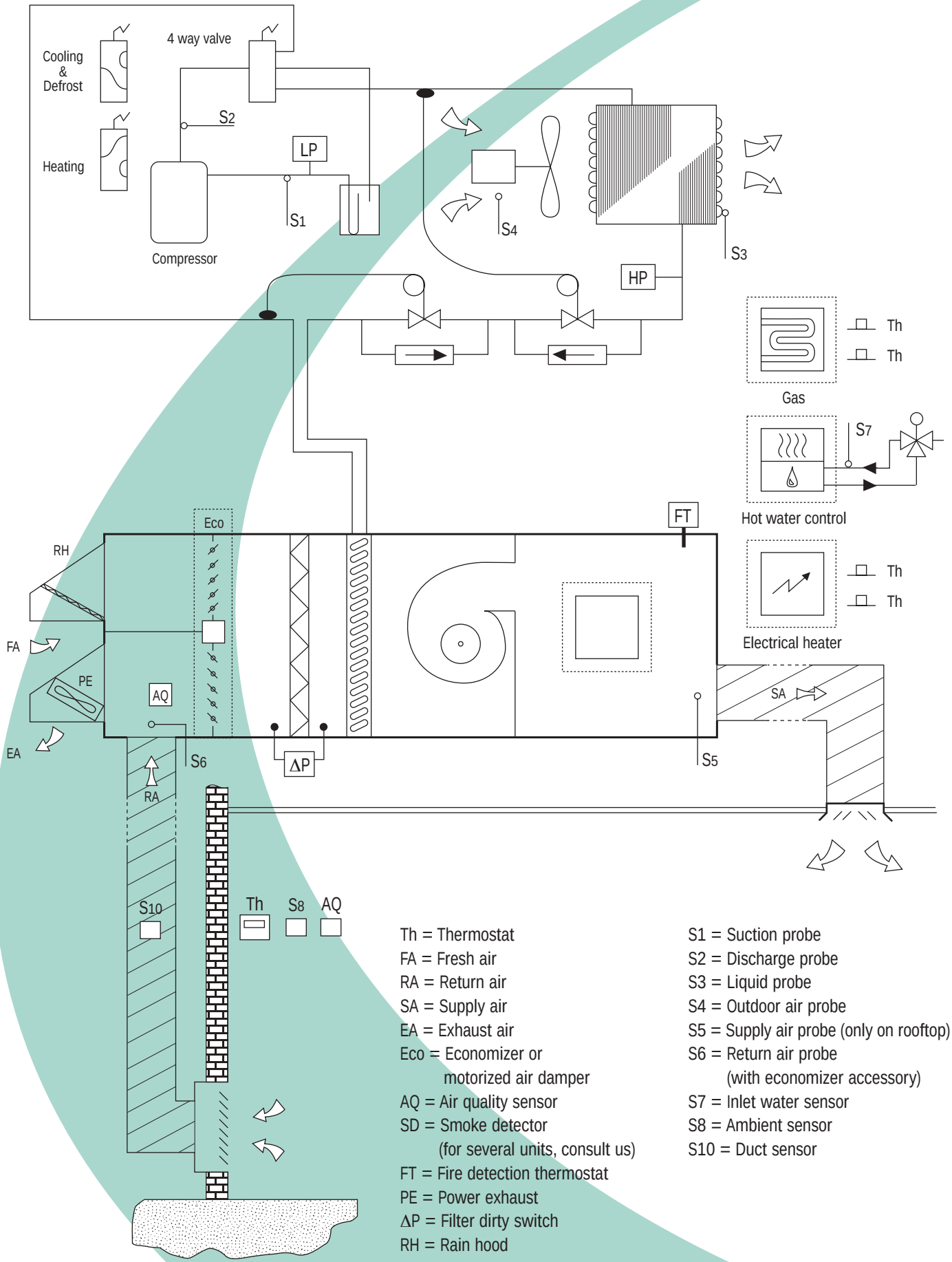
## YKtool




**Features and benefits YKtool**

- Activate cool and heat stages.
- Give access to DPC-1 thermostat status.
- Give access to input and output of the YKlon.
- Give access to accessories status.
- Read the probe values.

# ROOFTOP principle : More flexible than ever




Th = Thermostat
FA = Fresh air
RA = Return air
SA = Supply air
EA = Exhaust air
Eco = Economizer or
motorized air damper
AQ = Air quality sensor
SD = Smoke detector
(for several units, consult us)
FT = Fire detection thermostat
PE = Power exhaust
ΔP = Filter dirty switch
RH = Rain hood

S1 = Suction probe
S2 = Discharge probe
S3 = Liquid probe
S4 = Outdoor air probe
S5 = Supply air probe (only on rooftop)
S6 = Return air probe
(with economizer accessory)
S7 = Inlet water sensor
S8 = Ambient sensor
S10 = Duct sensor

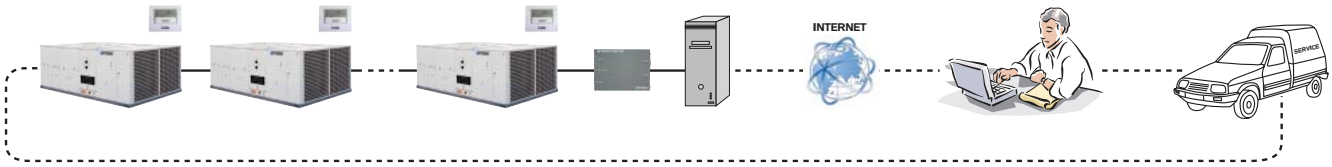
# And these applications

Used on a regular basis, you will come to appreciate the YKtool. For commisioning, it will override the thermostat and start the cool / heat stages. Being a plug and play device, you will have a direct access to all sensors, status of each component and accessory installed.

***You need accurate data, so do I.***

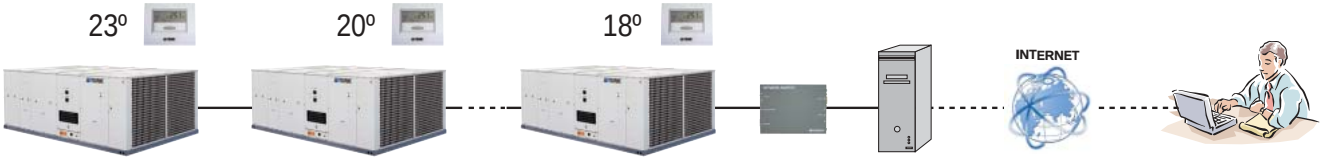
A dedicated computer with modem, a network adapter and telephone connection. This is all you need to realise your objective: "Send your engineer before your customer get's upset due to a HVAC problem".
Be clever and use the potential of YKlink to send your operator with the required spare parts.

***You care for your customers, so do I.***



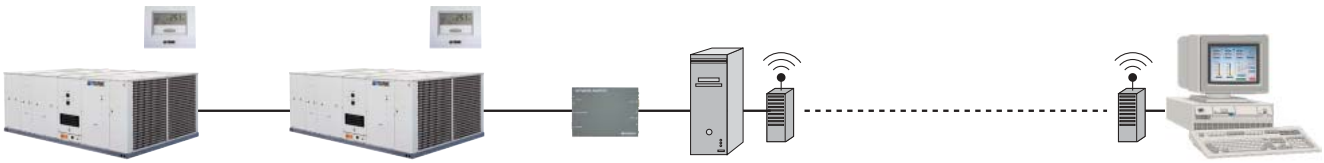
Analysis shows clearly: "dealer and installer must offer better value to keep customers and stay in the business". A service contract can play a major role in this value proposition. Without BMS knowledge, YKlink software will allow weekly remote control for the settings in each room.

***You need your customer, so do I.***



Is capital cost important to you ? If so, forget complicated and costly BMS network and use the new YKlink software together with wireless interface modem. It provides lockout alarm messages, remote reset, remote setting, etc…, and will help you to save time and money.

***You have to save time and money, so do I.***



## *THERMOSTATS WITH INTEGRATED SENSOR*

**T-11**

**ARTTH001S**

**ARTTH003S**

**DPC-1 / DPC-1R**

| | | | | | | |
|---|---|---|---|---|---|---|
| | Code | 613786025 | 603786050 | 603786447 | 603786044 | 603786045 |
| | Models | **T-11** | **ARTTH001S** | **ARTTH003S** | **DPC-1** | **DPC-1R** |
| Roomtop | RTC | X | 0 | 0 | - | 0 |
| | RTH | 0 | X | 0 | - | 0 |
| Rooftop | All models | - | - | - | X (1) | 0 |
| Split system | SOC (H) 076-120 | 0 | 0 | X | - | 0 |
| | SOC (H) 150-240 | - | - | X | - | 0 |
| | SCOC (H) | - | - | - | X | 0 |

***Main features***

| | | | | | | |
|---|---|---|---|---|---|---|
| Auto restart after power failure | ● | ● | ● | | ● | ● |
| Number of cool stages | 1 | 1 | 1 | 2 | 2 | 1 2 |
| Number of heat stages | 1 | 1 | 1 | 2 | 2 | 1 2 |
| Auxiliary Heat | - | ● | ● | | ● | ● |
| Automatic Heat/Cool change over | - | ● | ● | | ● | ● |
| Continuous or auto indoor fan | ● | ● | ● | | ● | ● |
| Manual setback (Day/Night key) | - | ● | ● | | Day, night and unocuppied | |
| Override possibility | - | - | - | | ● | ● |
| Compressor anti short cycle | - | ● | ● | | ● | ● |
| ºC Range cooling / heating | 10 to 30ºC | 16 to 40ºC / 5 to 30ºC | | | 10 to 32ºC / 9 to 32ºC | |
| Programmable, 7-day | - | - | - | | ● | ● |
| Lockout codes | - | - | - | | ● | ● |
| Outdoor air temperature | - | - | - | | ● | with YKIon |
| Sensor selection | - | - | - | | ● | ● |

*X : Delivered as standard with the unit* *X (1) : Standard but has to be ordered separately* *0 : Optional* ● *: Function available*

## *REMOTE SENSORS*

**ALSRS001S**

**ALSDS001S**

**ALSOU001**

**RS-1**

| Remote sensor for thermostat model | | **T-11** | **ARTTH001S** | **ARTTH003S** | **DPC-1** | **DPC-1R** |
|---|---|---|---|---|---|---|
| Wall sensor | Code | - | - | 613901282 | 603786042 | 603786042 |
| | Models | - | - | ALSRS001S* | RS-1 | RS-1 |
| Duct sensor | Code | - | - | 613901284 | 603786042 | 603786042 |
| | Models | - | - | ALSDS001S** | RS-1 | RS-1 |
| Outdoor sensor (read only) | Code | - | - | 613901285 | Included with YKIon | |
| | Models | - | - | ALSOU001 | | |

** Average indoor temperature with up to six sensors.* *** Must be ordered with ALSRS001S for duct mount.*

## SERVICE TOOL AND COMMUNICATION

**Communication pack :**
The communication pack is a complete service that YORK will offer in order to provide a network between units. By utilising a commissioning service contract with YORK, you will have peace of mind improved reliability and the guarantee of consistent follow-up by trained engineers. For more detail, consult YORK local agency.

| | | |
|---|---|---|
| YKtool | Code | 613786025 |
| Communication Pack | | Contact us |

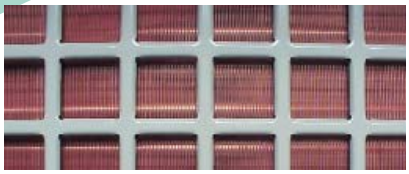
**YKtool**

ECHELON®

Echelon device networking technology enables end-users to remotely connect, monitor, control, sense, and diagnose intelligent devices. Today, thousands of intelligent devices and appliances are equipped with LonWorks networks. You can find them in every aspect of the device networking environment from HVAC and lighting in buildings, to collecting energy usage information or data across a grid of 27 million homes˜24 hours a day. LonWorks networks simplify system management, conserve energy, improve operations, and reduce costs.

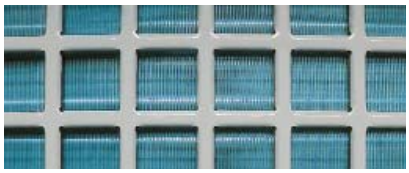
## COMMON SPECIFICATIONS

**Copper-copper coil :**
Available as an option, copper-copper coils are often used for refinery/chemical sites or salt-laden air where it is difficult to service the unit.



**Copper-copper coil**

**Anti-corrosion blue protected fins :**
Available as option, this special blue coated fins (conform to 1000 hrs salt spray fog ASTM B117 standard) will extend the life of your A/C in aggressive area. An interesting economic alternative to copper-copper coils.



**Anti-corrosion blue protected fins**

**Cabinet :**
Build to be use in harsh conditions, heavy gauge galvanised steel cabinet will provide years of dependable operation. Automatic line painting process degrease, phosphate, passivate, clean with demineralised water and powder paint backed on oven at 220°C casing panels. An exceptionally durable finish RAL9002 guaranteed by 800 hours fog spray protection process in accordance with DIN 50 021.

**Quality and ELT :**
Design, built and tested under ISO9001 quality system certification, we are constantly listening to customer comments. For this reason, our End of Line Test ELT strives to be as close as possible to the commissioning you carry out on site.

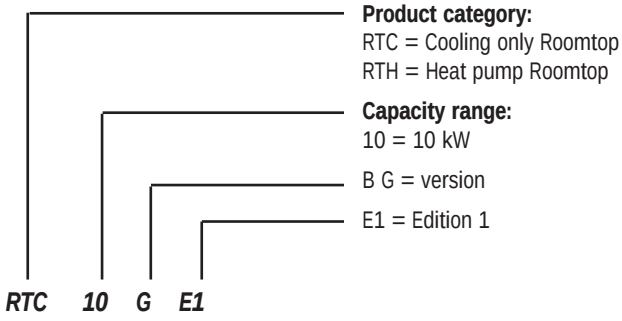
# Air System Roomtop
# Horizontal Monobloc

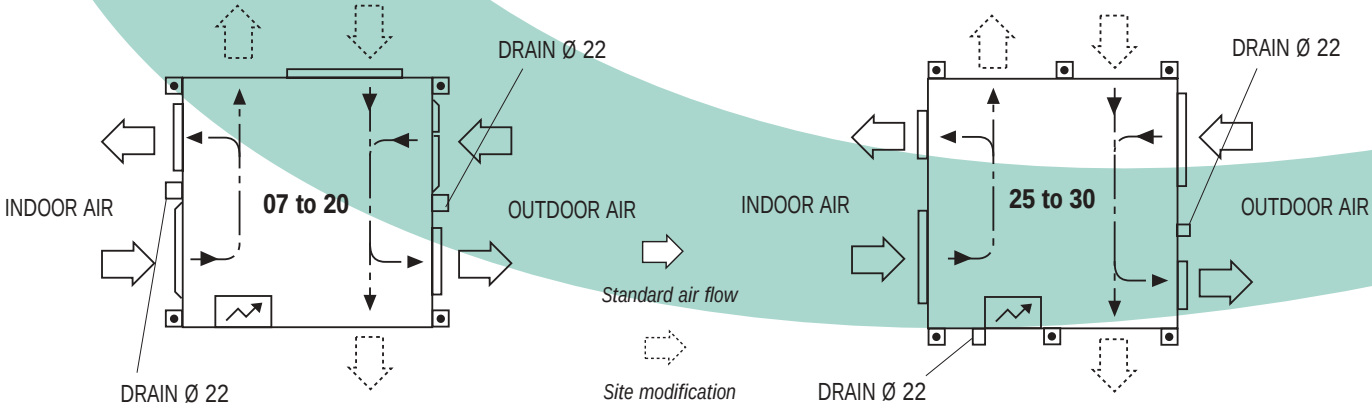
- Scroll Compressors
- ROIon board
- High external static pressure on evaporator and condenser
- Thermostat and indoor air filter included
- LED fault diagnosis with remote alarm
- Two levels of safety: Lockout and incident

RTC-RTH 07 BG - 30 BG

## Compact solution for indoor applications !

### *Product nomenclature*



# Air System Roomtop
## 7 to 30 kW

### Technical data

| Cooling only models | | | RTC 07 BG | RTC 10 BG | RTC 15 BG | RTC 20 BG | RTC 25 BG | RTC 30 BG |
|---|---|---|---|---|---|---|---|---|
| Cooling capacities | | kW | 6,5 | 9,4 | 14,0 | 17,9 | 21,8 | 27,0 |
| Power input in cooling | | kW | 3,3 | 4,5 | 6,8 | 9,0 | 10,1 | 13,0 |
| In duct outdoor side sound power level | | dB(A) | 62 | 64 | 69 | 71 | 76 | 76 |
| In duct indoor side sound power level | | dB(A) | 63 | 66 | 67 | 68 | 75 | 75 |
| **Heat pump models** | | | **RTH 07 BG** | **RTH 10 BG** | **RTH 15 BG** | **RTH 20 BG** | **RTH 25 BG** | **RTH 30 BG** |
| Cooling capacities | | kW | 6,9 | 9,4 | 14,0 | 18,0 | 20,2 | 27,0 |
| Power input in cooling | | kW | 3,30 | 4,5 | 6,8 | 9,0 | 10,0 | 12,3 |
| Heating capacities | | kW | 8,0 | 11,0 | 14,5 | 18,0 | 20,2 | 27,5 |
| Power input in heating | | kW | 2,96 | 3,9 | 5,3 | 6,2 | 7,5 | 11,2 |
| In duct outdoor side sound power level | | dB(A) | 63 | 67 | 69 | 71 | 76 | 76 |
| In duct indoor side sound power level | | dB(A) | 60 | 63 | 67 | 68 | 75 | 75 |
| Common characteristics | | | | | | | | |
| Power supply | | | 230V/1/50Hz | 400V/3 + N/ 50Hz | | | | |
| Nominal / Starting current | | A | 17 / 72 | 10,1 / 45 | 13 / 62 | 15,4 / 79 | 18,7 / 77 | 21,8 / 80 |
| Main switch (1) | | A | 25 | 20 | 25 | 25 | 25 | 32 |
| Main cable (1) | | Nbr. x mm² | 3 x 4 | 5 x 2,5 | 5 x 4 | 5 x 4 | 5 x 4 | 5 x 6 |
| Cable to standard thermostat (2) | | Nbr. x mm² | 10 x 0,22 | | | | | |
| Evaporator fan | Airflow | m³/h | 1 970 | 2 430 | 4 000 | 4 485 | 5 000 | 5 850 |
| at nominal airflow | Standard ESP | Pa | 25 | 37 | 50 | 50 | 62 | 62 |
| Condenser fan | Airflow | m³/h | 2 380 | 3 450 | 4 350 | 5 255 | 5 200 | 6 400 |
| at nominal airflow | Standard ESP | Pa | 50 | 50 | 50 | 50 | 50 | 50 |
| Nett dimensions | Height | mm | 478 | 555 | 555 | 585 | 640 | 640 |
| | Length | mm | 1 100 | 1 150 | 1 310 | 1 570 | 1 750 | 1 750 |
| | Depth | mm | 1 100 | 1 150 | 1 310 | 1 570 | 1 650 | 2 050 |
| Nett weight | RTC | kg | 154 | 180 | 214 | 275 | 345 | 405 |
| Nett weight | RTH | kg | 163 | 190 | 224 | 285 | 350 | 412 |

(1) For information only. These should be checked for compliance with local regulations depending also on installation and cable type
(2) Shield type cable only
*All the data are at EUROVENT conditions with 230V/1/50Hz or 400V/3+N/50Hz.*
*Cooling : Entering indoor coil temp. 27ºC / 19ºC WB and outdoor temperature 35ºC*
*Heating : Entering indoor coil temp. 20ºC and outdoor temperature 7ºC / 6ºC WB*

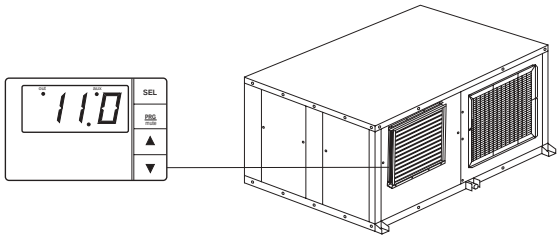
### Compatibility table / Codes

| Cooling only models | | RTC 07 BG | RTC 10 BG | RTC 15 BG | RTC 20 BG | RTC 25 BG | RTC 30 BG |
|---|---|---|---|---|---|---|---|
| | Code | 661210785 | 661211085 | 661211585 | 661212085 | 661212585 | 661213085 |
| Heat pump models | | **RTH 07 BG** | **RTH 10 BG** | **RTH 15 BG** | **RTH 20 BG** | **RTH 25 BG** | **RTH 30 BG** |
| | Code | 662050785 | 662051086 | 662051586 | 662052086 | 662052586 | 662053086 |
| Thermostat | | | | | | | |
| Delivered as standard | RTC | T-11 | | | | | |
| with the unit | RTH | ARTTH001S | | | | | |

### Accessories or options

| | Remarks | Code | | 07 | 10 | 15 | 20 | 25 | 30 |
|---|---|---|---|---|---|---|---|---|---|
| Electrical Heaters (in duct) | 5 kW / 1ph. | 611760561 | A | ● | ● | | | | |
| | 5 kW / 3ph. | 611760573 | | ● | ● | | | | |
| | 10 kW / 3ph. | 611761083 | | | | ● | ● | ● | ● |
| | 15 kW / 3ph. | 611761513 | | | | ● | ● | ● | ● |
| | 10 kW / 3ph. | 611761033 | | ● | ● | | | | |
| Low ambient regulation **New !** | | 613111532 | O/A | ● | ● | ● | | | |
| | | 613113086 | | | | | ● | ● | ● |
| Condensate drain heater and regulation | | 606791203 | A | ● | ● | ● | ● | ● | ● |
| Copper-copper coils unit | | | O | ● | ● | ● | ● | ● | ● |
| Anti-corrosion blue protected fins | | | O | ● | ● | ● | ● | ● | ● |

A = Accessory (supplied loose)
O = Option




**Low Ambient Regulation**

# Air System Rooftop
# Packaged air cooled

- YKlon board
- Duct work configuration side or down flow
- Cooling, heat pump, gas and electric heating
- Compact and with proven reliability
- Wide range of accessories
- Suitable for use in harsh climates

090 - 150

180 - 300

## Compact solution for outdoor applications !

### *Product nomenclature*

**Product category :**
D = Packaged air conditioner (air-cooled)
B = Heat pump

**Product generation :**
4 = 4th generation

**Product identification :**
IC = Cooling only
IH = Heat pump
IG = Mechanical cooling with gas burner

**Capacity range :**
180 = 180.000 Btu/h

1.000 Btu/h = 293 W

**Heating installed :**
G = R407C refrigerant

**Nominal net heating capacity with gas :**
165 = 47,5 kW
200 = 57 kW
320 = 76 kW

**Voltage code :**
50 = 400V / 3 + N / 50 Hz

E1 = Edition 1

*D 4 IG 180 G 320 50 E1*

R407C

New range

# Air System Rooftop
## 20 to 92 kW

### Technical data

| Cooling only models | | | D4IC 090G | D4IC 120G | D4IC 150G | D4IC 180G | D4IC 240G | D4IC 300G |
|---|---|---|---|---|---|---|---|---|
| Cooling capacities (1) | | kW | 26,8 | 34,2 | 44,2 | 50,6 | 67 | 92,5 |
| Power input (2) | | kW | 8,9 | 10,6 | 13,1 | 15,2 | 21,3 | 28 |
| **Heat pump models** | | | **B4IH 090G** | **B4IH 120G** | **B4IH 150G** | **B4IH 180G** | **B4IH 240G** | **B4IH 300G** |
| Cooling capacities (1) | | kW | 24,7 | 33,2 | 41 | 47,8 | 60,7 | 92,4 |
| Power input in cooling (2) | | kW | 8,3 | 10,5 | 11 | 14,7 | 19,3 | 26,3 |
| Heating capacities | | kW | 24,3 | 32,3 | 37,7 | 47,3 | 63,9 | 79,0 |
| Power input in heating | | kW | 6,70 | 8,2 | 8,0 | 13,0 | 16,7 | 25,5 |
| **Cooling only + Gas heating** | | | **D4IG 090G** | **D4IG 120G** | **D4IG 150G** | **D4IG 180G** | **D4IG 240G** | **D4IG 300G** |
| Cooling capacities (1) | | kW | 26,8 | 34,2 | 44,2 | 50,6 | 67,0 | 92,5 |
| Cooling power input (2) | | kW | 8,9 | 10,6 | 13,1 | 15,2 | 21,3 | 28 |
| Standard Heating capacities (3) | | kW | 47,5 + 1,5 | 57 + 2,2 | 57 + 4 | 76 + 4 | 76 + 5,5 | 76 + 7,5 |
| Natural gas 2ND-H, G20 | | $m^3/h$ | 5,4 | 6,5 | 6,5 | 8,6 | 8,6 | 8,6 |
| High Heating capacities (3) | | kW | - | - | - | 90 + 4 (*) | 90 + 5,5 | 90 + 7,5 |
| Natural gas 2ND-H, G20 | | $m^3/h$ | - | - | - | 9,75 | 9,75 | 9,75 |
| **Technical characteristics for D4IC and D4IG** | | | | | | | | |
| Ambient outdoor side sound power level | | dB(A) | 87 | 87 | 88 | 94 | 92 | 94 |
| Ambient outdoor side sound pressure level at 5 m | | dB(A) | 65 | 65 | 66 | 72 | 70 | 72 |
| In duct indoor side sound power level | | dB(A) | 79 | 79 | 82 | 83 | 85 | 90 |
| Power supply | | | 400V/3 + N/ 50Hz | | | | | |
| Nominal / Starting current | | A | 19.9 / 76 | 24.3 / 83 | 34.8 / 151 | 40.9 / 175 | 51 / 187 | 67.3 / 204 |
| Main switch (4) | | A | 32 | 32 | 50 | 50 | 63 | 80 |
| Main cable (4) | | Nbr. x $mm^2$ | 5 x 4 | 5 x 6 | 5 x 10 | 5 x 10 | 5 x 16 | 5 x 25 |
| Cable to thermostat (6) | | Nbr. x $mm^2$ | 10 x 0,22 | | | | | |
| Number of circuits | | | 2 | 2 | 1+1 dual | 1+1 dual | 2 dual | 3 dual |
| Evaporator fan (5) at nominal airflow | Airflow | $m^3/h$ | 5 100 | 6 800 | 8 640 | 10 000 | 13 700 | 17 000 |
| | Standard ESP | Pa | 170 | 275 | 210 | 340 | 320 | 120 |
| | ESP with HSD | Pa | Consult us | | | 450 | 390 | > 450 |
| | Power input | kW | 1.5 | 2.2 | 4 | 4 | 5.5 | 7.5 |
| | Drive | | Pulley-belts (6-turn adjustable pulley) | | | | | |
| Nett dimensions | Height | mm | 855 | 1 007 | 1 210 | 1 235 | 1 337 | 1 337 |
| | Length | mm | 2 552 | 2 552 | 2 552 | 3 180 | 3 460 | 3 460 |
| | Depth | mm | 1 800 | 1 800 | 1 800 | 2 337 | 2 337 | 2 337 |
| Nett weight DIC / DIG | | kg | 437 / 472 | 472 / 537 | 590 / 642 | 860 / 970 | 957 / 1 066 | 1 238 / 1 353 |
| **Technical characteristics for B4IH** | | | | | | | | |
| Ambient outdoor side sound power level | | dB(A) | 83 | 83 | 83 | 94 | 93 | 94 |
| Ambient outdoor side sound pressure level at 5 m | | dB(A) | 61 | 61 | 61 | 72 | 71 | 72 |
| In duct indoor side sound power level | | dB(A) | 79 | 79 | 89 | 85 | 88 | 90 |
| Power supply | | | 400V/3 + N/ 50Hz | | | | | |
| Nominal / Starting current | | A | 19,9 / 76 | 24,3 / 83 | 30 / 118 | 39,5 / 161 | 51 / 187 | 78,3 / 189 |
| Main switch (4) | | A | 32 | 40 | 50 | 63 | 80 | 100 |
| Main cable (4) | | Nbr. x $mm^2$ | 5 x 6 | 5 x 10 | 5 x 10 | 5 x 16 | 5 x 25 | 5 x 35 |
| Cable to thermostat (6) | | Nbr. x $mm^2$ | 10 x 0,22 | | | | | |
| Number of circuits | | | 2 | 2 | 2 | 2 dual | 2 dual | 2 scroll |
| Evaporator fan at nominal airflow (5) | Airflow | $m^3/h$ | 5 100 | 6 800 | 8 640 | 10 000 | 13 700 | 17000 |
| | Standard ESP | Pa | 110 | 125 | 168 | 325 | 300 | 325 |
| | ESP With HSD | Pa | Consult us | | | 435 | 370 | > 450 |
| | Power input | kW | 1.5 | 2.2 | 4 | 4 | 5.5 | 9.2 |
| | Drive | | Pulley-belts (6 turn adjustable pulley) | | | | | |
| Nett dimensions | Height | mm | 855 | 1 210 | 1 210 (**) | 1 235 | 1 337 | 1 337 (***) |
| | Length | mm | 2 552 | 2 552 | 2 552 | 3 180 | 3 460 | 3 460 |
| | Depth | mm | 1 800 | 1 800 | 1 800 | 2 337 | 2 337 | 2 337 |
| Nett weight | | kg | 477 | 637 | 743 | 953 | 1 043 | 1 279 |

*(1) : without heat from evaporator fan motor*
*(2) : without evaporator fan motor*
*(3) : net heating capacity + indoor fan power input*
*(4) : For information only. They should be checked to comply local norms and regulations depending also on installation and conductor type*
*(5) : ESP = External static pressure HSD = High speed drive*
*(6) : Shield type cable only*
*(*) : Indoor air flow should be set at least at 10.000 $m^3/h$*
*(**) : 1 450 mm with the external condenser fans*
*(***) : 1 582 mm with the external condenser fans*

| Cooling only models | | D4IC 090 G50 | D4IC 120 G50 | D4IC 150 G50 | D4IC 180 G50 | D4IC 240 G50 | D4IC 300 G50 |
|---|---|---|---|---|---|---|---|
| | Code | 661720913 | 661721223 | 661721523 | 661721823 | 661722423 | 661723023 |

| Heat pump models | | B4IH 090 G50 | B4IH 120 G50 | B4IH 150 G50 | B4IH 180 G50 | B4IH 240 G50 | B4IH 300 G50 |
|---|---|---|---|---|---|---|---|
| | Code | 661920973 | 661921273 | 661921573 | 661921973 | 661922573 | 661923073 |

| Cooling only + gas models | | D4IG 090 G16550 | D4IG 120 G20050 | D4IG 150 G20050 | D4IG 180 G32050 | D4IG 240 G32050 | D4IG 300 G32050 |
|---|---|---|---|---|---|---|---|
| | Code | 661730923 | 661731223 | 661731523 | 661731833 | 661732423 | 661733023 |

| Thermostat | Code | DPC-1 |
|---|---|---|

# Accessories or options

| | Accessories or options | | Code | Option/Accessory |
|---|---|---|---|---|
| New | Dry bulb triple input economizer or motorized air damper with rain hood | | 613991582 | O |
| | | | 613991889 | |
| | | | 613993082 | |
| New | Enthalpy probes * | | 613990081 | O |
| New | Indoor air quality sensor * | | 606819964 | O/A |
| New | Power Exhaust * | | 613994582 | A |
| | | | 613995081 | |
| | | | 613996085 | |
| | Barometric relief damper and rain hood | | 613990485 | A |
| | | | 613990486 | |
| New | Fresh air or barometric damper and rain hood | | 613990483 | A |
| | Fresh air damper and rain hood | | 613990484 | |
| | High speed drive | | 611991880 | O/A |
| | | | 611992481 | |
| | | | 611993080 | |
| | Low ambient control | | 613111280 | O/A |
| | | | 613112480 | |
| | | New | 613111281 | |
| | | New | 613112481 | |
| | | New | 613113084 | |
| | Copper-copper coil | | - | O |
| | Anti-corrosion blue protected fin | | - | O |
| | Side duct flanges | | 613991480 | A |
| | | | 613991481 | |
| | Fixed roof curb | | 613991881 | A |
| | | | 613991884 | |
| | | | 613991885 | |
| | Adjustable roof curb | | 613992080 | A |
| | | | 613992081 | |
| | | | 613992082 | |
| New | Filter dirty switch | | 613990080 | O |
| New | Smoke detector (for several units, consult us) | | 613995381 | O |
| New | Fire detection thermostat | | 613903002 | O |
| New | Hot water coil control | | 611809031 | O |
| | Hot water coil without control | | 611083501 | |
| | | | 611083101 | |
| | | | 611083201 | |
| New | Electric heaters | 16 kW | 611761582 | O |
| | | 25 kW | 611762282 | |
| | | 37 kW | 611763382 | |
| | | 12 kW | 611761583 | |
| | | 25 kW | 611762283 | |
| | | 37 kW | 611763383 | |
| | | 50 kW | 611764483 | |
| | Propane conversion Kit | | 611801780 | A |
| | High heat gas conversion kit | | 611803080 | A |
| | Washable air Filter | | 611300980 | A |
| | | | 611301281 | |
| | | | 611301580 | |
| | | | 611301880 | |
| | | | 611302480 | |
| | | | 611303080 | |

*O = Option (factory fitted)  A = Accessory (supplied loose)  O / A = Could be fitted from factory as an option or supplied loose as an accessory*

● *= Available*

* *It is mandatory to order the economizer with this item*

| Cooling only | | | | | | Heat pump | | | | | | Cooling and gas | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 90 | 120 | 150 | 180 | 240 | 300 | 90 | 120 | 150 | 180 | 240 | 300 | 90 | 120 | 150 | 180 | 240 | 300 |
| ● | ● | ● | | | | ● | ● | ● | | | | ● | ● | ● | | | |
| | | | ● | ● | | | | | ● | ● | | | | | ● | ● | |
| | | | | | ● | | | | | | ● | | | | | | ● |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ● | ● | ● | | | | ● | ● | ● | | | | ● | ● | ● | | | |
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| ● | ● | ● | | | | | | | | | | ● | ● | ● | | | |
| | | | ● | ● | ● | | | | | | | | | | ● | ● | ● |
| | | | | | | ● | ● | ● | | | | | | | | | |
| | | | | | | | | | ● | ● | | | | | | | |
| | | | | | | | | | | | ● | | | | | | |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | | ● | | | | | | ● | | | | | | ● | | |
| | | | | ● | ● | | | | | ● | ● | | | | | ● | ● |
| ● | ● | ● | | | | ● | ● | ● | | | | ● | ● | ● | | | |
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| | | | | ● | ● | | | | | ● | ● | | | | | ● | ● |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | | | | | | |
| ● | | | | | | ● | | | | | | | | | | | |
| | ● | ● | | | | | ● | ● | | | | | | | | | |
| | | | ● | ● | ● | | | | ● | ● | ● | | | | | | |
| ● | ● | ● | | | | ● | ● | ● | | | | | | | | | |
| ● | ● | ● | | | | ● | ● | ● | | | | | | | | | |
| | ● | ● | | | | | ● | ● | | | | | | | | | |
| | | | ● | ● | ● | | | | ● | ● | ● | | | | | | |
| | | | ● | ● | ● | | | | ● | ● | ● | | | | | | |
| | | | ● | ● | ● | | | | ● | ● | ● | | | | | | |
| | | | ● | ● | ● | | | | ● | ● | ● | | | | | | |
| | | | | | | | | | | | | ● | ● | ● | ● | ● | ● |
| | | | | | | | | | | | | | | | ● | ● | ● |
| ● | | | | | | ● | | | | | | ● | | | | | |
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| | | | ● | | | | | | ● | | | | | | ● | | |
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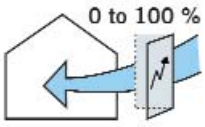
| | | | | | ● | | | | | | ● | | | | | | ● |

# Accessories or options for ROOF TOP

## Triple input economizer :

This system utilizes 3 probes: Return Air, Outdoor Air and Supply Air. The Outdoor Air damper and the Return Air dampers are mechanically interconnected in order to provide the same airflow at the entrance of the coil, with a single damper motor. The PCB compares values and modulates the dampers providing maximum efficiency of the economiser system (free cooling) and comfort (Supply Air > 12°C). Combined with the air quality sensor, your payback will be ensured within few months. The rain hood is painted to match the basic unit and aluminium mesh pre-filter prevents water penetration.

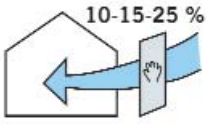



## Motorised outdoor air damper :

Equipped with the same dampers as the economizer, the Return Air probe is not used. Outdoor air damper opens to pre-set position whenever the indoor fan is operating (selected from the thermostat, the indoor fan can be activated with the compressor or to operate continuously) and will drive fully closed when the indoor fan shuts down. The rain hood is painted to match the basic unit and aluminium mesh pre-filter prevents water penetration.

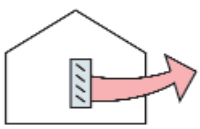
## Enthalpy sensors :

To control the economizer in humid areas, or when indoor air humidity needs to remains dry, you might choose enthalpy regulation. Enthalpy sensors will be used with the triple input economizer.



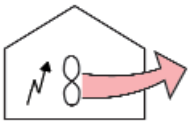

## Fresh air damper and rain hood :

The most cost effective method with a complete rain hood and a fixed damper that can be adjusted to accept approximately 10, 15 or 25% of fresh air.



## Barometric relief damper :

This accessory can be used to relieve internal air pressure on units equipped with triple input economiser or motorised air damper but no power exhaust. When the rooftop is working in free cooling or introducing fresh air, the damper opens to relieve over pressure from the return air section. This accessory is comprised of a rain hood, a protective grille and a fully assembled damper.

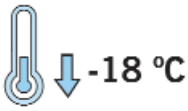


## Power Exhaust :

Used to relieve mechanically internal air pressure from the Return Air section and ensure efficient fresh air introduction on units equipped with triple input economiser or motorised air damper. The power exhaust fan motor works when enough Outdoor Air is blowing into the room and if Outdoor Air temperature is acceptable (12°C < t° < 30°C).

## High speed drive :

Available for models 180, 240 and 300, the high speed drive will increase the indoor air performance for applications with a greater air flow and/or static pressure. Please consult technical guide for more information.

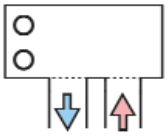



## Low ambient control :

All our rooftops are designed to work in cooling mode down to 7°C ambient temperatures for models from 90 to 150 and -4°C from 180 to 300. Although this working range suits most applications, the units can operate correctly down to -18°C with optional low ambient control.

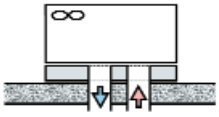
## Indoor air quality :

This sensor measures concentrations of pollutant gases, such as tobacco smoke, human body odours, kitchen odours, carbon monoxide, etc… It automatically overrides the economizer when levels rise above preset limits. A shorting plug will set the algorithm to acteptable, good or very good air quality. This VOC sensor (Volatile Organic Compounds) sends an ON/OFF signal to the PCB. The YKIon will then adjust the fresh air damper, optimising indoor air quality and limit the energy consumption. A CO2 content sensor will be soon available to fulfil specific requirement.



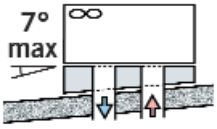
## Side duct flanges :

Fitted as standard on units 90, 120 and 150, this accessory is composed of sheet metal panels easy to install and allow ductwork connections on the side of the unit for horizontal return air and/or supply air.



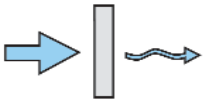
### Fixed roof curbs :

Ideal for down-flow applications, it is a great help for installation allowing duct connections, electrical preparation and weatherproofing between the roofcurb and the roof of the building. Shipped in kit form, it also gives adequate height for condensate trap operation.




### Adjustable roof curbs :

With the same benefits as than the fixed roof curb, it allows the rooftop to be levelled on a roof with up to 7° slope (4%).



### Filter dirty switch :

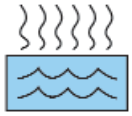
Ensures that clean air is being supplied, advises when maintenance is required to prevent excessive depression and ensure water integrity in the unit. These are the main advantages of filter dirty switch.
Connected with the DPC-1 thermostat, the filter icon will appear on the thermostat screen when a filter change is required.

### Smoke detector :

The smoke detector is protecting the unit but must not be used to ensure a full building protection against smoke danger. If smoke is detected the unit is switched OFF (lockout). A manual reset is necessary.

### Fire detection thermostat :

This fire detection thermostat is protecting the unit but must not be used to ensure a full building protection against fire danger. The standard unit is protected as standard with a Supply Air probe that switched OFF the unit (lockout) when reached 80°C. The electromechanical fire detection thermostat is used to fulfil specific local requirement. A manual reset is necessary.



### Hot water coil with control :

The hot water coil and his control are always fitted, wired and factory tested. Located in the supply air section, side or bottom duct connection is possible without any modification. Complete with an anti-frost thermostat, the PCB will activate the modulated valve (24V supply, 0 – 10V modulating signal) in order to get the best comfort. A jumper will allow using hot water coil as 1st heating stage.

### Electrical heaters :

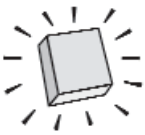
Available on cooling only and heat pump units, the electric heater is protected with two overheats per element. When the overheat operates, there is a lock out of the faulty electric heater stage and the PCB start automatically an other heat stage.

### Kit conversion propane :

The kit comprises burner, pilot injectors and all necessary instructions for converting the natural gas burner to propane gas. The nominal pressure of the propane gas should be 37 mbar.

### High heat gas :

The kit comprises burner injectors and all necessary instructions to provide high heat capacity for gas rooftop.



### Washable air filter :

The Galvanised sheet metal frame permits cleaning synthetic fibre filter but also allows easily replacement of the media. Delivered with G3 class media in accordance with European standard EN-779 and F1 fire class in accordance with DIN53438, this is a good answer for a heavy maintenance site.

# Air System Large Rooftop
# Packaged air cooled

- YKlon board
- Duct work configuration side or down flow
- Cooling and heat pump models
- Compact unit
- Wide range of accessories
- Suitable for use in harsh climates

360-480

## Big is nice !

## LAUNCH 2004

### *Product nomenclature*

**Product category :**
D = Packaged air conditioner (air-cooled)
B = Heat pump

**Product generation :**
4 = 4th generation

**Product identification :**
IC = Cooling only
IH = Heat pump

**Capacity range :**
360 = 360.000 Btu/h

1.000 Btu/h = 293 W

**Heating installed :**
G = R407C

**Voltage code :**
50 = 400V / 3 + N / 50 Hz

E1 = Edition 1

***D 4 IC 360 G 50 E1***

# Air System Large Rooftop
## 120 to 155 kW

### Technical data

| Models | | | D4IC 360 G | D4IC 480 G | B4IH 360 G | B4IH 480 G |
|---|---|---|---|---|---|---|
| Gross cooling capacities (1) | | kW | 119,1 | 155,6 | 115,1 | 151 |
| Power input in cooling (2) | | kW | 31,5 | 40,4 | 31,1 | 39,4 |
| Heating capacities | | kW | - | - | 127,1 | 163,3 |
| Power input in heating | | kW | - | - | 35,7 | 46,8 |
| Cooling capacities (3) | | kW | 111,6 | 144,6 | 107,6 | 140 |
| Power input in cooling (3) | | kW | 39 | 51,4 | 38,6 | 50,4 |
| Heating capacities (3) | | kW | - | - | 127,1 | 163,3 |
| Power input in heating (3) | | kW | - | - | 35,7 | 46,8 |
| Power supply | | | 400V/3 + N/ 50Hz | | | |
| Nominal / Starting current | | | 85 / 167 | 109 / 250 | 83 / 169 | 109 / 250 |
| Main switch | | A | 125 | 160 | 125 | 160 |
| Main cable | | Nbr. x mm² | 5 x 50 | 5 x 70 | 5 x 50 | 5 x 70 |
| Cable to thermostat DPC | | Nbr. x mm² | 10 x 0,22 shield cable only | | | |
| Number of circuits | | | 3 | 3 | 3 | 3 |
| Evaporator fan at nominal airflow | Airflow | m³/h | 21 000 | 25 000 | 21 000 | 25 000 |
| | Power input | kW | 7,5 | 11 | 7,5 | 11 |
| | Drive | | Pulley - Belt (6 turns adjustable) | | | |
| Nett dimensions | Height | mm | 1.790 | | | |
| | Length | mm | 4.560 | | | |
| | Depth | mm | 2.200 | | | |
| Nett weight | | kg | 1 550 | 1 790 | 1 600 | 1 850 |

*(1) : without heat from evaporator fan motor*
*(2) : without evaporator fan motor*
*(3) : Data according to Eurovent standard conditions*

### Accessories / Options

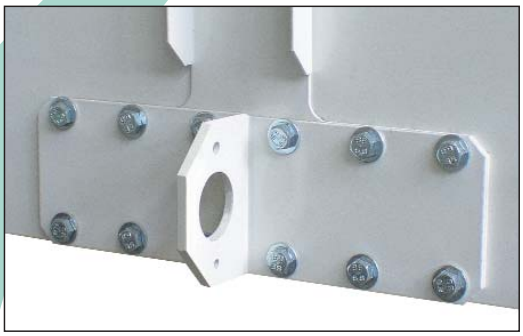
| Models | | D4IC 360 G | D4IC 480 G | B4IH 360 G | B4IH 480 G |
|---|---|---|---|---|---|
| Dry bulb triple input economizer or motorized air damper with rain hood | O | ● | ● | ● | ● |
| Enthalpy probe * | O | ● | ● | ● | ● |
| Indoor air quality sensor * | O/A | ● | ● | ● | ● |
| Power exhaust * | A | ● | ● | ● | ● |
| Barometric relief damper + rain hood | A | ● | ● | ● | ● |
| Fresh air damper and rain hood | A | ● | ● | ● | ● |
| High speed drive | O | ● | ● | ● | ● |
| Low ambient control | O | ● | ● | ● | ● |
| Fixed roof curb | A | ● | ● | ● | ● |
| Hot water coil with control | O | ● | ● | ● | ● |
| Electric heater | O | ● | ● | ● | ● |
| Washable air filter set G4 (EU4) | O | ● | ● | ● | ● |
| Dirty filter switch | O | ● | ● | ● | ● |
| Smoke detector | O | ● | ● | ● | ● |
| Fire detection thermostat | O | ● | ● | ● | ● |

*O = Option (factory fitted)*
*A = Accessory (supplied loose)*
*O / A = Could be fitted from factory as an option or supplied loose as an accessory*
● *= Available*
* = *It is mandatory to order the economizer with this item*

# Large Rooftop details

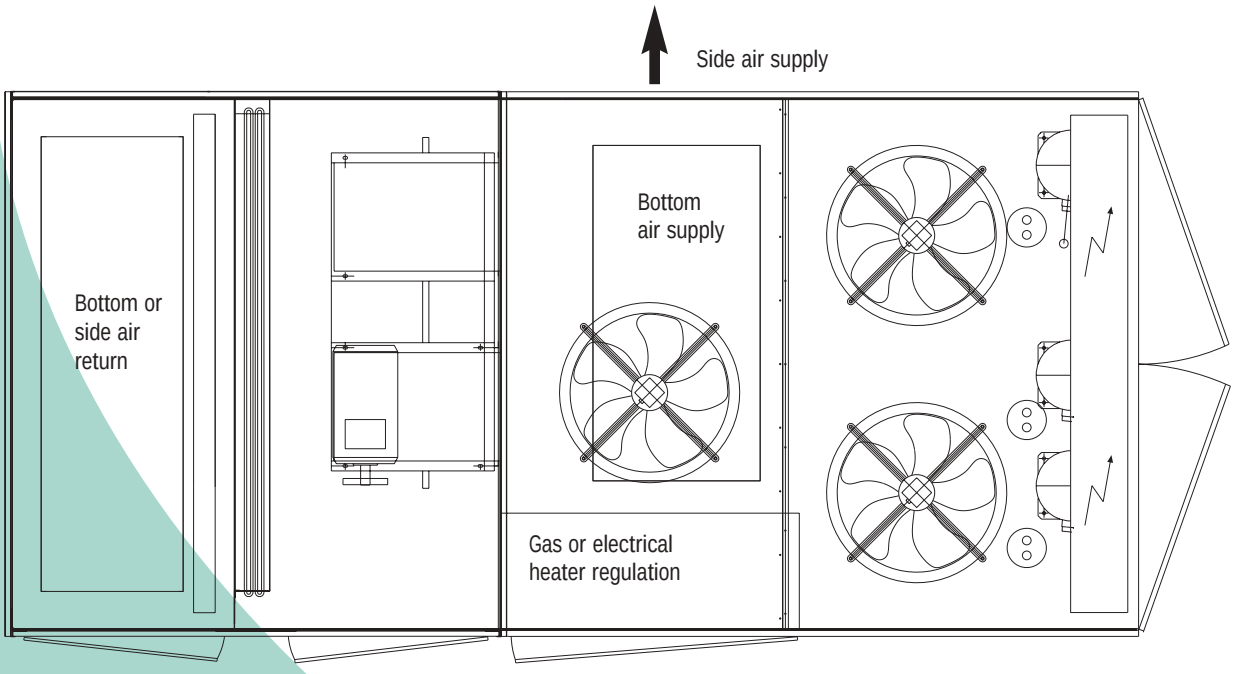
**Electrical compartment**

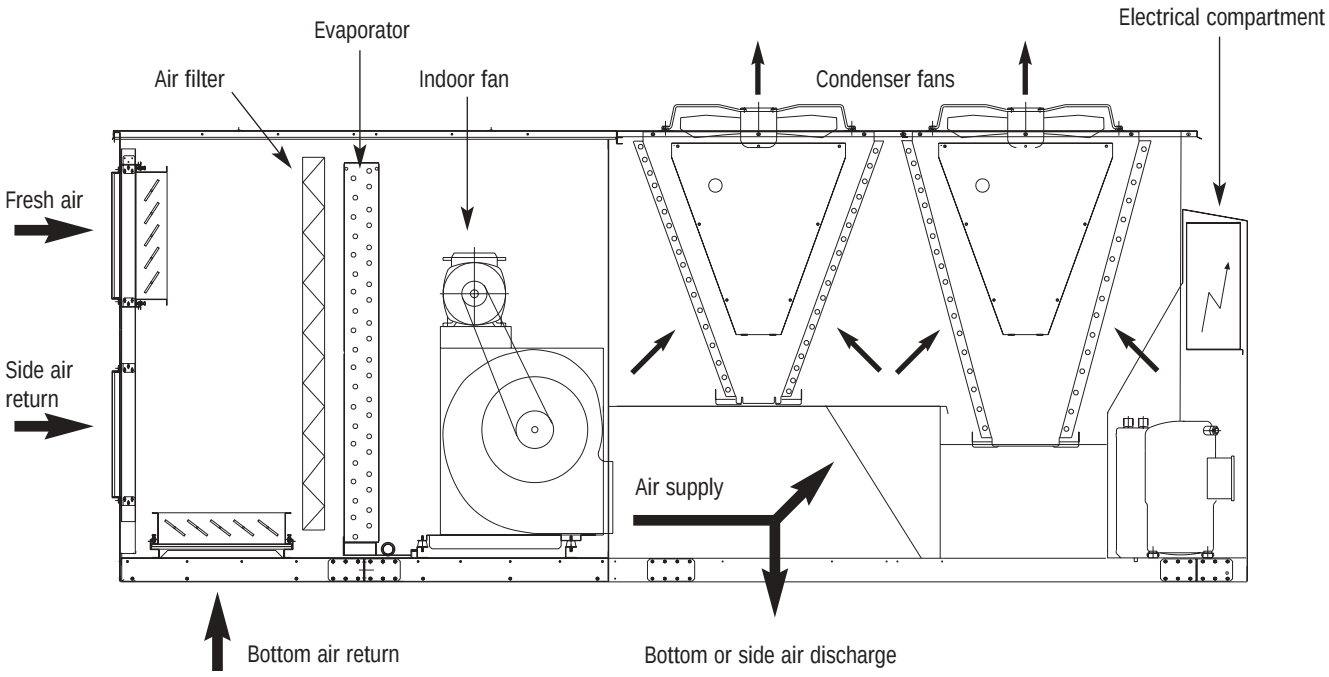
- Scroll compressors
- Excellent maintenance access
- Enclosed insulated cabinet and scroll compressors for quiet operation
- YKLon PCB and Digital Programmable with communication thermostat

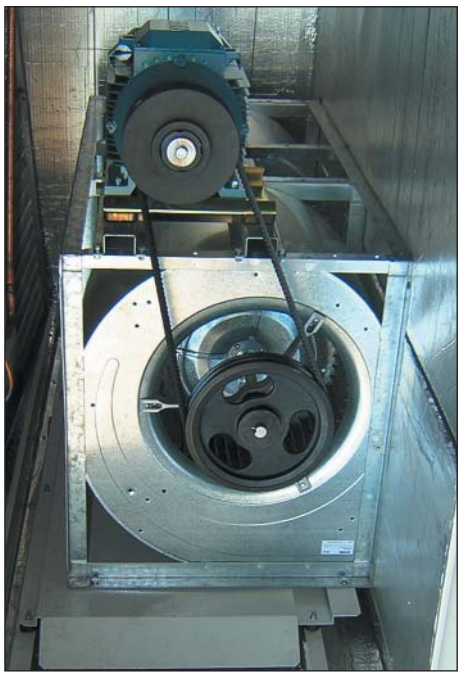


- Solid base frame
- Rigid lifting points

- Low noise outdoor fan





- Easy access though doors
- Fan set on antivibration bush
- Foil-faced insulation cleanable and hygienic
- Large space for maintenance
- G3 (EU3) metalic frame air filter

- Vertical / horizontal panel junction water proof
- 1/4 turn lock on all doors

# Air System Large Split Condensing unit (Axial fan) Ductable air handling unit

- ROIon board
- Low ambient control as standard
- Scroll compressors
- Digital thermostat included
- LED fault diagnosis with remote alarm
- “Quick connect” accessories
- Two levels of safety: Lockout & incident
- Adjustable parameters with dip switches
- New packing allows stacking on stock of the units (only 76 to 120)
- Improve condenser coil protection (only 76 to 120)

SOC-SOH 076-120

SOC-SOH 150-240

## Your solution for outdoor applications !

SICH 076-240

### *Product nomenclature*

**Product category:**
SOC = Cooling only outdoor unit with axial fan
SOH = Heat pump outdoor unit with axial fan
SICH = Ductable indoor unit

**Capacity range:**
150 = 150.000 Btu/h

1.000 Btu/h = 293 W

I-H = version

E1 = Edition 1

***SOH 150 I E1***

New range

# Air System Large Split
20 to 70 kW

## Technical data

| Cooling only models | | SOC 076 I | SOC 090 I | SOC 120 I | SOC 150 H | SOC 180 H | SOC 240 I |
|---|---|---|---|---|---|---|---|
| Cooling capacities | kW | 22,0 | 29,0 | 33,4 | 41,8 | 53,0 | 68,0 |

| Heat pump models | | SOH 076 I | SOH 090 I | SOH 120 I | SOH 150 H | SOH 180 H | SOH 240 I |
|---|---|---|---|---|---|---|---|
| Cooling capacities | kW | 22,0 | 29,0 | 33,4 | 42,0 | 54,0 | 68,0 |
| Heating capacities | kW | 23,0 | 30,0 | 34,0 | 43,0 | 55,5 | 67,8 |

*All the data are at EUROVENT conditions with 230V/1/50Hz or 400V/3+N/50Hz.*
*Cooling : Entering indoor coil temp. 27ºC / 19ºC WB and outdoor temperature 35ºC*
*Heating : Entering indoor coil temp. 20ºC and outdoor temperature 7ºC / 6ºC WB*

## Compatibility table / Codes

**BLOWERS**

| | | SICH 076 B | SICH 090 B | SICH 120 B | SICH 150 B | SICH 180 B | SICH 240 C |
|---|---|---|---|---|---|---|---|
| Cooling only & heat pump | Code | 662562524 | 662564024 | 662564024 | 662564524 | 662566034 | 662568034 |

**CONDENSING UNITS**

| Cooling only models | | SOC 076 I | SOC 090 I | SOC 120 I | SOC 150 H | SOC 180 H | SOC 240 I |
|---|---|---|---|---|---|---|---|
| | Code | 661502681 | 661503181 | 661504181 | 661504585 | 661506086 | 661508084 |

| Heat pump models | | SOH 076 I | SOH 090 I | SOH 120 I | SOH 150 H | SOH 180 H | SOH 240 I |
|---|---|---|---|---|---|---|---|
| | Code | 662512689 | 662513186 | 662514185 | 662514680 | 662516180 | 662518286 |

**Thermostat**

| | | |
|---|---|---|
| Delivered with the unit | Code | ARTTH003S |

For other thermostat models and remote sensor, please check the page concerning the thermostats.

### *Accessories or options for outdoor units*

| | Code | | 076 | 090 | 120 | 150 | 180 | 240 |
|---|---|---|---|---|---|---|---|---|
| Low speed condenser motor | 613118084 | O | 1 | 1 | 2 | - | - | - |
| Condensate drain heater and regulation for SOH only | 606791203 | A | ● | ● | ● | | | |
| | 606791206 | | | | | ● | ● | ● |
| Copper-copper coil | | O | ● | ● | ● | ● | ● | ● |
| Anti-corrosion blue protected fin | | O | ● | ● | ● | ● | ● | ● |

### *Accessories or options for indoor units*

| | Remarks | Code | | 076B | 090B | 120B | 150B | 180B | 240C |
|---|---|---|---|---|---|---|---|---|---|
| High speed drive | | 603761161 | O/A | ● | | | | | |
| | | 603761163 | | | ● | ● | | | |
| | | 603761162 | | | | | ● | | |
| | | 603761120 | | | | | | ● | |
| | | 611998081 | | | | | | | ● |
| Electrical Heaters (Inside the unit) | 10 kW | 611763544 | O/A | ● | | | | | |
| | 15 kW | 611763644 | | ● | | | | | |
| | 10 kW | 611761554 | | | ● | ● | | | |
| | 20 kW | 611761644 | | | ● | ● | | | |
| | 15 kW | 611761734 | | | | | ● | | |
| | 30 kW | 611761834 | | | | | ● | | |
| | 15 kW | 611762024 | | | | | | ● | |
| | 30 kW | 611763024 | | | | | | ● | |
| | 30 kW | 611763025 | | | | | | | ● |
| Electrical Heaters (in duct) | 10 kW | 613761013 | A | ● | | | | | |
| | 15 kW | 613761513 | | ● | | | | | |
| | 20 kW | 613762013 | | | ● | ● | ● | ● | ● |
| | 30 kW | 613763013 | | | ● | ● | ● | ● | ● |
| Hot water coil only | | 611082510 | O | ● | | | | | |
| | | 611083010 | | | ● | ● | | | |
| | | 611084510 | | | | | ● | | |
| Vertical discharge Kit | | 669482038 | O | | | | | ● | |
| | | 669488002 | | | | | | | ● |
| Copper-copper coil | | | O | ● | ● | ● | ● | ● | ● |
| Anti-corrosion blue protected fin | | | O | ● | ● | ● | ● | ● | ● |

*O = Option (factory fitted).*

*A = Accessory (supplied loose).*

*O/A = Could be fitted from factory as an option or supplied loose as an accessory.*

# Technical data

## *Indoor units*

| Cooling only and heat pump | SICH | 76 | 90 | 120 | 150 | 180 | 240 |
|---|---|---|---|---|---|---|---|

## *Outdoor units*

| Cooling only models | SOC | 76 | 90 | 120 | 150 | 180 | 240 |
|---|---|---|---|---|---|---|---|
| Cooling capacities | kW | 22,0 | 29,0 | 33,4 | 41,8 | 53,0 | 68,0 |
| Power input in cooling | kW | 7,88 | 11,0 | 14,0 | 17,0 | 19,4 | 28,0 |
| Refrigerant charge on site for 7 m piping length | Kg | 6,6 | 8,5 | 11,2 | 6,7 x 2 | 8,7 x 2 | 9 x 2 |

| Heat pump models | SOH | 76 | 90 | 120 | 150 | 180 | 240 |
|---|---|---|---|---|---|---|---|
| Cooling capacities | kW | 22,0 | 29,0 | 33,4 | 42,0 | 54,0 | 68,0 |
| Power input in cooling | kW | 7,91 | 11,0 | 13,8 | 17,5 | 20,8 | 28,0 |
| Heating capacities | kW | 23,0 | 30,0 | 34,0 | 43,0 | 55,5 | 67,8 |
| Power input in heating | kW | 6,30 | 8,64 | 12,1 | 14,6 | 19,4 | 22,3 |
| Refrigerant charge on site for 7 m piping length | Kg | 9,7 | 11,9 | 13 | 9,8 x 2 | 11,5 x 2 | 12 x 2 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Ambient outdoor side sound power level | dB(A) | 72 | 72 | 76 | 77 | 77 | 82 |
| Ambient outdoor side sound pressure level at 5 m | dB(A) | 50 | 50 | 54 | 55 | 55 | 60 |
| In duct indoor side sound power level | dB(A) | 70 | 70 | 70 | 72 | 75 | 77 |
| Power supply | | 400V/3 + N/ 50Hz | | | | | |
| Nominal / Starting current | A | 17/ 99 | 23/ 134 | 28/ 167 | 31/ 2 x 99 | 44/ 2 x 134 | 56/ 2 x 167 |
| Main switch (1) | A | 25 | 32 | 40 | 50 | 63 | 80 |
| Main cable to the outdoor unit (1) | Nbr x mm² | 5 x 4 | 5 x 6 | 5 x 10 | 5 x 10 | 5 x 16 | 5 x 25 |
| Interconnecting cable (1) | Nbr x mm² | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 |
| Cable to standard thermostat (2) | Nbr x mm² | 10 x 0,22 | | | | | |
| Insulated refrigerant piping | Suction | 1 1/8” | 1 1/8” | 1 1/8” | 2 x 1 1/8” | 2 x 1 1/8” | 2 x 1 3/8” |
| | Liquid | 1/2” | 5/8” | 5/8” | 2 x 1/2” | 2 x 5/8” | 2 x 7/8” |
| Evaporator fan SICH at nominal airflow (3) — Airflow | m³/h | 4 615 | 7 850 | 7 850 | 10 700 | 13 600 | 16 500 |
| Standard ESP | Pa | 62 | 75 | 75 | 75 | 80 | 80 |
| ESP With HSD | Pa | 206 | 214 | 206 | 162 | 230 | 196 |
| Nett dimensions outdoor — Height | mm | 982 | 1 134 | 1 134 | 1 134 | 1 185 | 1 134 |
| Length | mm | 1 240 | 1 240 | 1 240 | 1 240 | 1 240 | 1 975 |
| Depth | mm | 880 | 880 | 1 630 | 1 630 | 1 630 | 1 630 |
| Nett dimensions indoor — Height | mm | 590 | 663 | 663 | 663 | 762 | 838 |
| Length | mm | 1 357 | 1 738 | 1 738 | 2 038 | 2 239 | 2 639 |
| Depth | mm | 725 | 725 | 725 | 725 | 777 | 857 |
| Nett weight — SOC | kg | 206 | 216 | 318 | 410 | 424 | 542 |
| SOH | kg | 240 | 254 | 332 | 452 | 480 | 612 |
| SICH | kg | 120 | 165 | 165 | 195 | 240 | 310 |

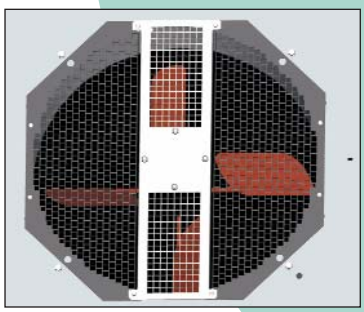
*(1) For information only. These should be checked for compliance with local regulations depending also on installation and conductor type.*

*(2) Shield type cable only.*

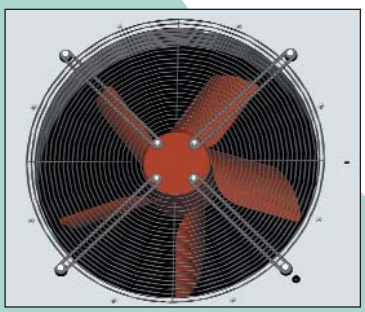
*(3) ESP = External static pressure  HSD = High speed drive*

**Condenser motor**

**Standard**

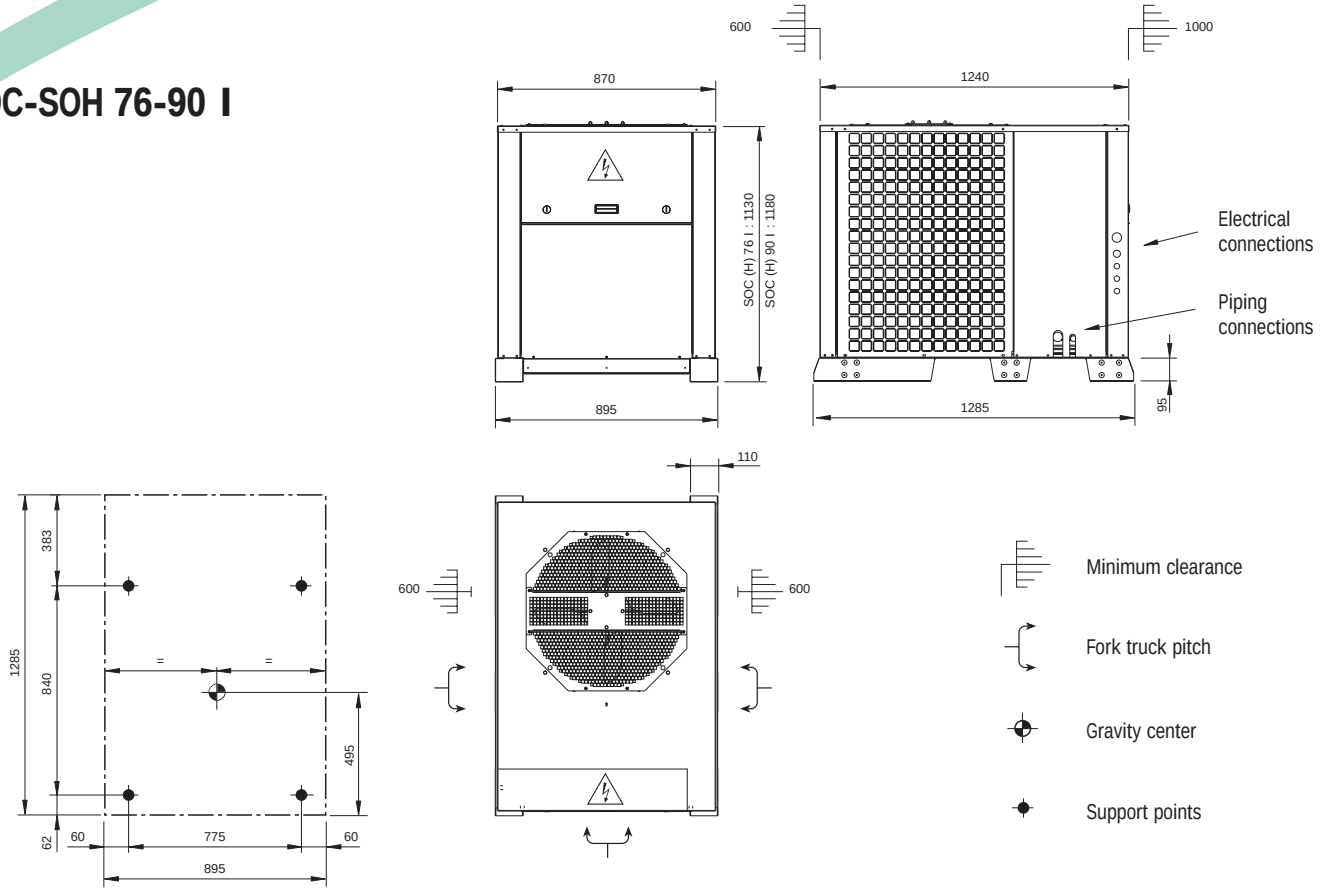


**Low speed**

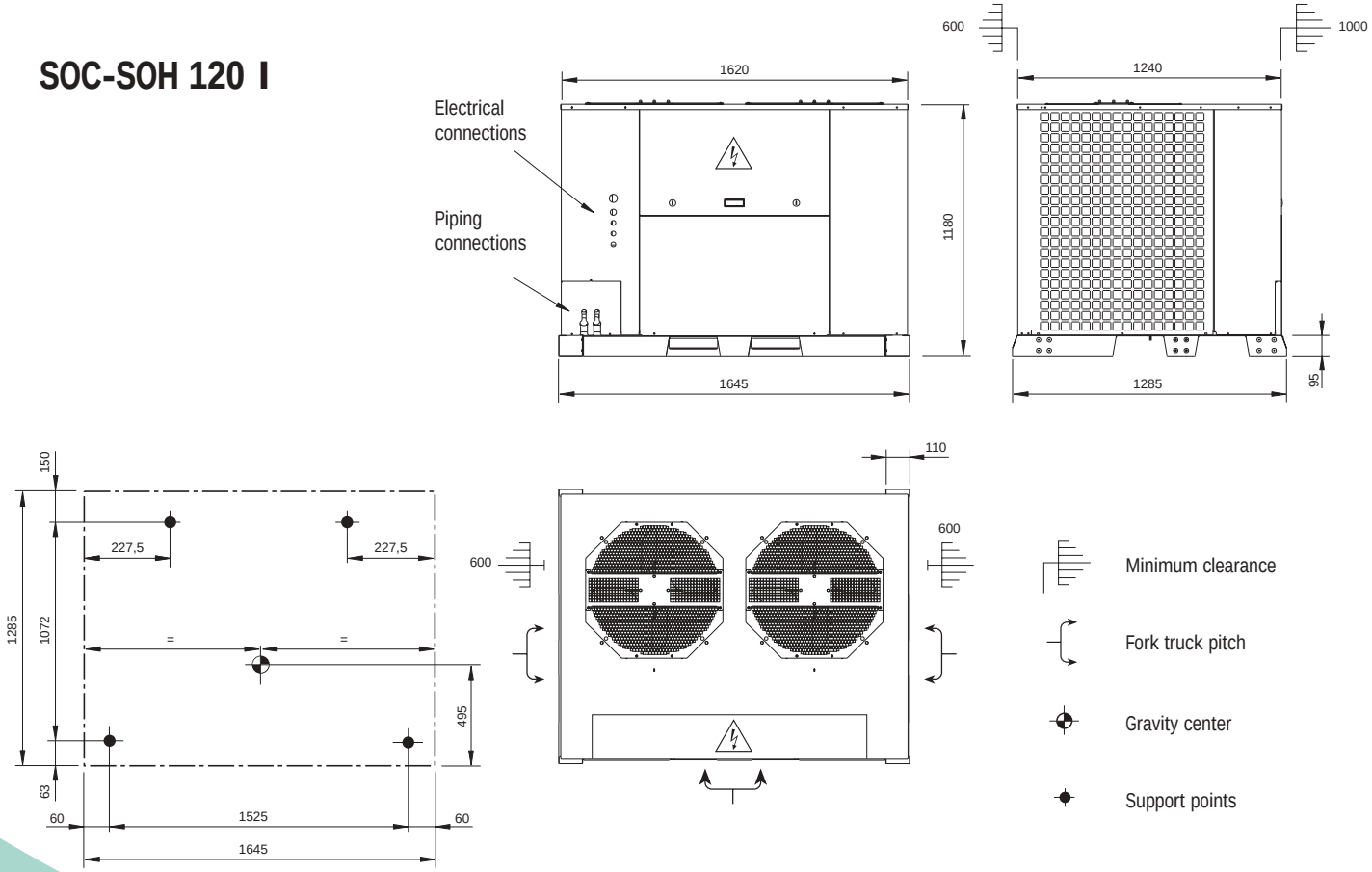


# Dimensions and space requirements outdoor units

## SOC-SOH 76-90 I

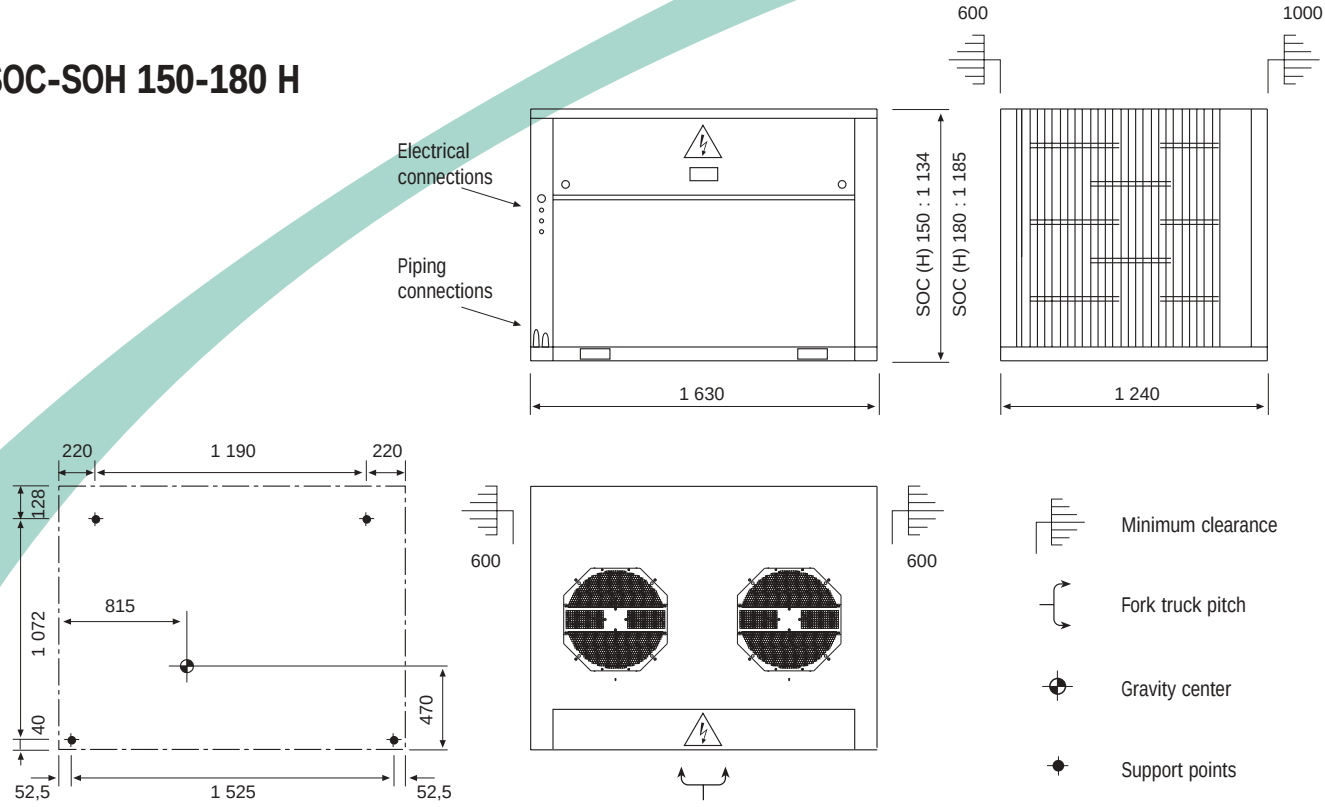



## SOC-SOH 120 I

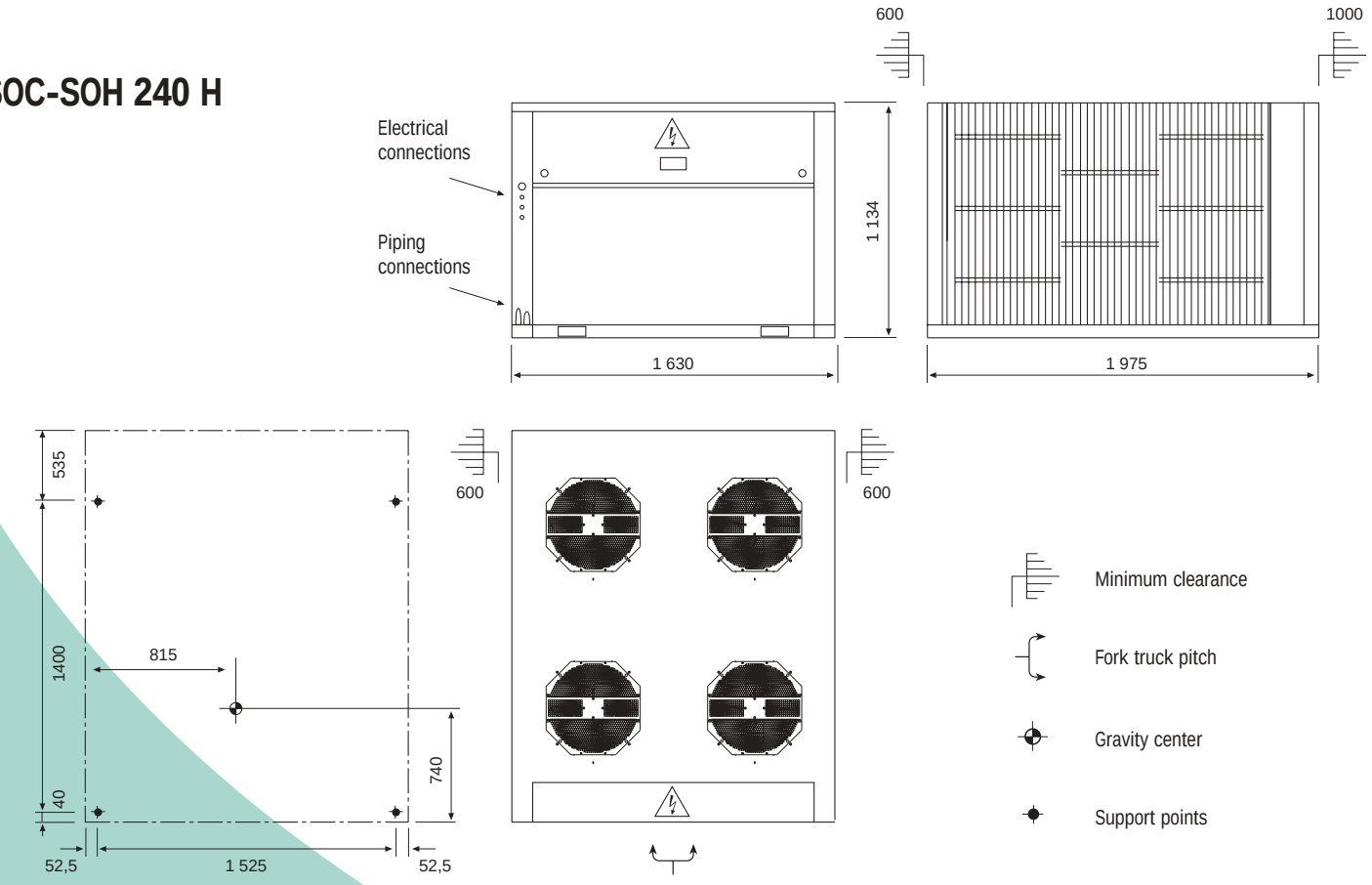


# Dimensions and space requirements outdoor units

## SOC-SOH 150-180 H

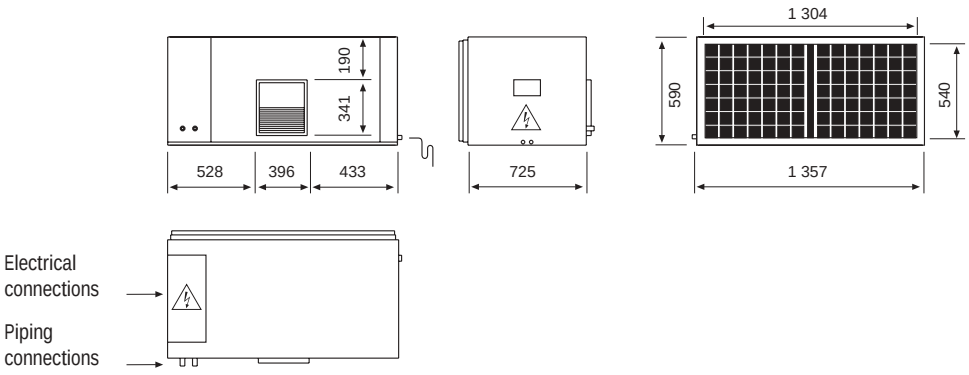



## SOC-SOH 240 H

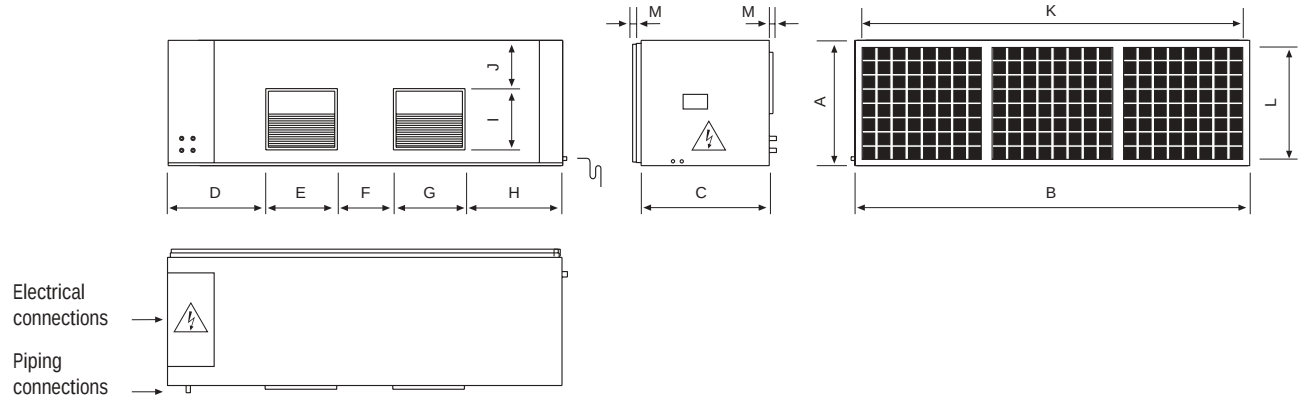


# Dimensions indoor units

## SICH 70-76



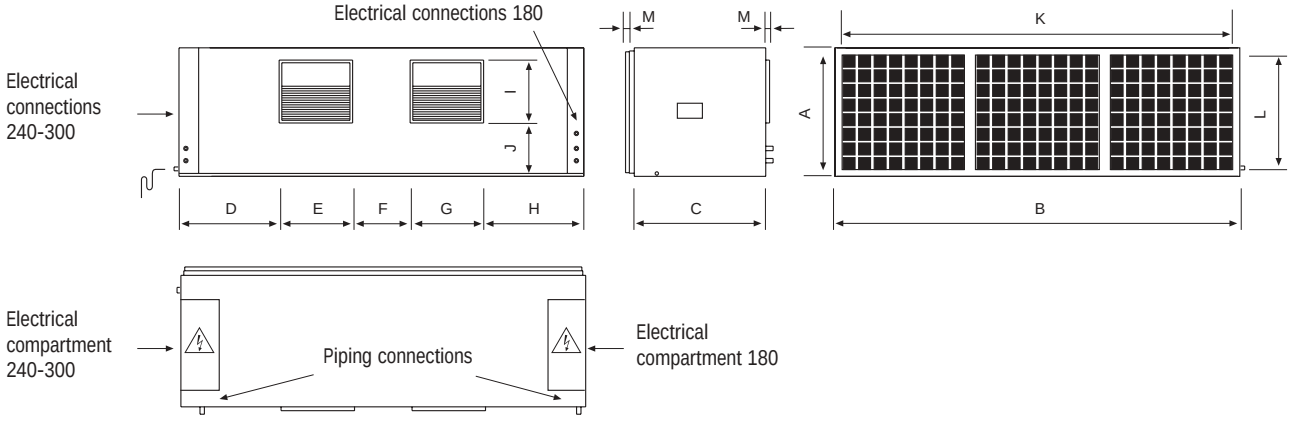

## SICH 90-120-150




| | A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SICH 90** | 663 | 1 738 | 725 | 470 | 311 | 321 | 311 | 325 | 341 | 263 | 1 685 | 616 | 25 |
| **SICH 120** | 663 | 1 738 | 725 | 470 | 311 | 321 | 311 | 325 | 341 | 263 | 1 685 | 616 | 25 |
| **SICH 150** | 663 | 2 038 | 725 | 510 | 396 | 321 | 396 | 415 | 341 | 263 | 1 985 | 613 | 25 |

All dimensions in mm

## SICH 180-240-300




| | A | B | C | D | E | F | G | H | I | J | K | L | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SICH 180** | 762 | 2 239 | 777 | 563 | 396 | 321 | 396 | 563 | 341 | 341 | 2 186 | 709 | 25 |
| **SICH 240** | 838 | 2 639 | 857 | 653 | 479 | 375 | 479 | 653 | 470 | 348 | 2 589 | 788 | 25 |
| **SIH 300** | 838 | 2 639 | 857 | 653 | 479 | 375 | 479 | 653 | 470 | 348 | 2 589 | 788 | 25 |

All dimensions in mm

# Air System

# Large Split or monobloc
# Condensing unit (Centrifual fan)
# Ductable air handling unit

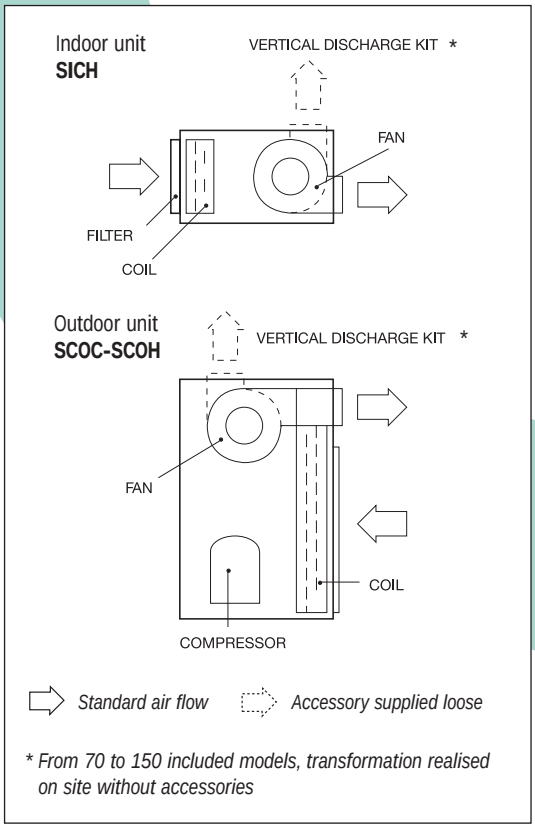
- YKlon board
- Scroll compressors
- LED fault diagnosis with remote alarm
- “Quick connect” accessories
- Two levels of safety: Lockout & incident
- Adjustable parameters with dip switches
- Vertical or horizontal air discharge for the indoor and outdoor units

**SCOC-SCOH 070-300** **SICH 070-300**

ECHELON®

**LAUNCH 2004**

## Your solution for indoor applications !




* *From 70 to 150 included models, transformation realised on site without accessories*

### *Product nomenclature*

**Product category:**
SCOC = Cooling only outdoor unit with centrifugal fan
SCOH = Heat pump outdoor unit with centrifugal fan
SICH = Ductable indoor unit

**Capacity range:**
120 = 120.000 Btu/h

1.000 Btu/h = 293 W

I = version

E1 = Edition 1

***SCOH 120 / E1***



YORK®

# Air System Large Split
## 18 to 90 kW

### Technical data

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Cooling only models** | | - | SCOC 076 I | SCOC 090 I | - | SCOC 150 I | SCOC 180 I | - | - |
| Cooling capacities | kW | | 21,0 | 29,0 | | 40,0 | 54,0 | | |
| **Heat pump models** | | SCOH 070 I | SCOH 076 I | SCOH 090 I | SCOH 120 I | SCOH 150 I | SCOH 180 I | SCOH 240 I | SCOH 300 I |
| Cooling capacities | kW | 18,6 | 21,0 | 28,4 | 33,3 | 39,5 | 54,0 | 69,0 | 86,0 |
| Heating capacities | kW | 18,6 | 22,3 | 33,5 | 34,4 | 44,0 | 56,0 | 69,0 | 88,0 |

*Cooling : Entering indoor coil temp. 27ºC / 19ºC WB and outdoor temperature 35ºC*
*Heating : Entering indoor coil temp. 20ºC and outdoor temperature 7ºC / 6ºC WB*

*All the data are at EUROVENT conditions with 230V/1/50Hz or 400V/3+N/50Hz.*

### Compatibility table / Codes

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **BLOWERS** | | | | | | | | | |
| **Cooling only and heat pump models** | Code | SICH 070 B | SICH 076 B | SICH 090 B | SICH 120 B | SICH 150 B | SICH 180 B | SICH 240 C | SIH 300 B |
| | | 662562524 | 662562524 | 662564024 | 662564024 | 662564524 | 662566034 | 662568034 | 662561024 |
| **CONDENSING UNITS** | | | | | | | | | |
| **Cooling only models** | | - | SCOC 076 I | SCOC 090 I | - | SCOC 150 I | SCOC 180 I | - | - |
| | Code | | 661502588 | 661503182 | | 661504580 | 661506183 | | |
| **Heat pump models** | | SCOH 070 I | SCOH 076 I | SCOH 090 I | SCOH 120 I | SCOH 150 I | SCOH 180 I | SCOH 240 I | SCOH 300 I |
| | Code | 662512180 | 662512180 | 662513281 | 662514280 | 662614781 | 662516283 | 662518381 | 662511180 |
| **Thermostat** | | | | | | | | | |
| Delivered as standard with the unit | | DPC-1 | | | | | | | |

***Accessories or options for outdoor units***

| | Code | | 070 | 076 | 090 | 120 | 150 | 180 | 240 | 300 |
|---|---|---|---|---|---|---|---|---|---|---|
| Low ambient regulation | 613112582 | O/A | ● | ● | | | | | | |
| | 613114083 | | | | ● | ● | | | | |
| | 613114582 | | | | | | ● | | | |
| | 613116083 | | | | | | | ● | | |
| | 613111083 | | | | | | | | ● | ● |
| Condensate drain heater and regulation for SCOH models | 606791203 | A | ● | ● | ● | ● | | | | |
| | 606791206 | | | | | | ● | ● | ● | ● |
| Copper-copper coil | | O | ● | ● | ● | ● | ● | ● | ● | ● |
| Anti-corrosion blue protected fin | | O | ● | ● | ● | ● | ● | ● | ● | ● |
| Vertical discharge kit | 612822105 | A | ● | ● | | | | | | |
| | 612823105 | | | | ● | ● | | | | |
| | 612824605 | | | | | | ● | | | |
| | 612826105 | | | | | | | ● | | |
| | 612828105 | | | | | | | | ● | ● |

***Accessories or options for indoor units***

| | Remarks | Code | | 070 | 076 | 090 | 120 | 150 | 180 | 240 | 300 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| High speed drive | | 603761161 | O/A | ● | ● | | | | | | |
| | | 603761163 | | | | ● | ● | | | | |
| | | 603761162 | | | | | | ● | | | |
| | | 603761120 | | | | | | | ● | | |
| | | 611998081 | | | | | | | | ● | |
| | | 611991081 | | | | | | | | | ● |
| Electrical Heaters (Inside the unit) | 10 kW | 611763564 | O/A | ● | ● | | | | | | |
| | 15 kW | 611763664 | | ● | ● | | | | | | |
| | 10 kW | 611761564 | | | | ● | ● | | | | |
| | 20 kW | 611761664 | | | | ● | ● | | | | |
| | 15 kW | 611761764 | | | | | | ● | | | |
| | 30 kW | 611761864 | | | | | | ● | | | |
| | 15 kW | 611762064 | | | | | | | ● | | |
| | 30 kW | 611763064 | | | | | | | ● | | |
| | 30 kW | 611763065 | | | | | | | | ● | |
| | 40 kW | 611764565 | | | | | | | | | ● |
| Electrical Heaters (in duct) | 10 kW | 613761043 | A | ● | ● | | | | | | |
| | 15 kW | 613761543 | | ● | ● | | | | | | |
| | 20 kW | 613762043 | | | | ● | ● | ● | ● | ● | ● |
| | 30 kW | 613763043 | | | | ● | ● | ● | ● | ● | ● |
| Hot water coil only | | 611082510 | O | ● | ● | | | | | | |
| | | 611083010 | | | | ● | ● | | | | |
| | | 611084510 | | | | | | ● | | | |
| Vertical discharge Kit | | 669482038 | O | | | | | | ● | | |
| | | 669488002 | | | | | | | | ● | |
| | | 669481002 | | | | | | | | | ● |
| Copper-copper coil | | | O | ● | ● | ● | ● | ● | ● | ● | ● |
| Anti-corrosion blue protected fin | | | O | ● | ● | ● | ● | ● | ● | ● | ● |

*O = Option (factory fitted).* *A = Accessory (supplied loose).* *O/A = Can be fitted from factory as an option or supplied loose as an accessory.*

# Technical data

## *Indoor units*

| Cooling only and heat pump | SICH | 70 | 76 | 90 | 120 | 150 | 180 | 240 | 300 |
|---|---|---|---|---|---|---|---|---|---|

## *Outdoor units*

| Cooling only models | SCOC | --- | 76 | 90 | --- | 150 | 180 | --- | --- |
|---|---|---|---|---|---|---|---|---|---|
| Cooling capacities | kW | | 21,0 | 29,0 | | 40,0 | 54,0 | | |
| Power input in cooling | kW | | 9,0 | 13,2 | | 19,1 | 28,3 | | |
| Refrigerant charge on site for 7m piping length | Kg | | 8,7 | 13,8 | | 9,4 x 2 | 9 x 2 | | |

| Heat pump models | SCOH | 70 | 76 | 90 | 120 | 150 | 180 | 240 | 300 |
|---|---|---|---|---|---|---|---|---|---|
| Cooling capacities | kW | 18,6 | 21,0 | 28,4 | 33,3 | 39,5 | 54,0 | 69,0 | 86,0 |
| Power input in cooling | kW | 6,4 | 8,8 | 13,5 | 13,9 | 18,9 | 26,4 | 31,3 | 35,0 |
| Heating capacities | kW | 18,6 | 22,3 | 33,5 | 34,4 | 44,0 | 56,0 | 69,0 | 88,0 |
| Power input in heating | kW | 6 | 5,5 | 12,8 | 12,1 | 15,8 | 26,4 | 31,3 | 32,6 |
| Refrigerant charge on site for 7m piping length | Kg | 8,4 | 8,7 | 13,8 | 13 | 9,4 x 2 | 9 x 2 | 13 x 2 | 16 x 2 |

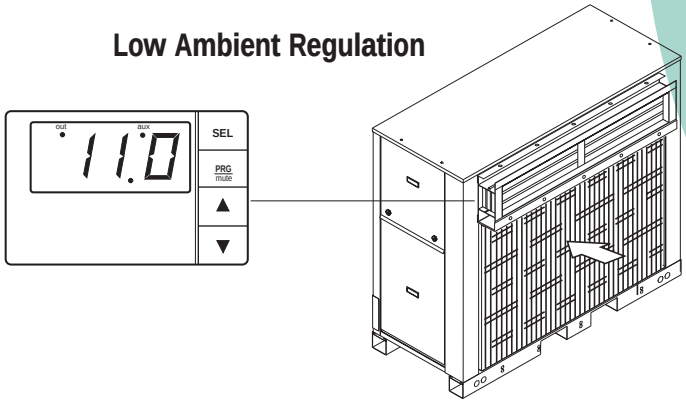
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| In duct outdoor side sound power level | dB(A) | 71 | 74 | 77 | 77 | 78 | 78 | 78 | 78 |
| In duct indoor side sound power level | dB(A) | 70 | 70 | 70 | 70 | 72 | 75 | 77 | 77 |
| Power supply | | 400V/3 + N/ 50Hz | | | | | | | |
| Nominal / Starting current | A | 17 / 99 | 20 / 123 | 24 / 134 | 29 / 167 | 37 / 2 x 99 | 49 / 2 x 134 | 59 / 2 x 167 | 76 / 2 x 189 |
| Main switch (1) | A | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 |
| Main cable to the outdoor unit (1) | Nbr x mm² | 5 x 4 | 5 x 4 | 5 x 6 | 5 x 10 | 5 x 10 | 5 x 16 | 5 x 25 | 5 x 35 |
| Interconnecting cable (1) | Nbr x mm² | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 1,5 | 4 x 2,5 |
| Cable to standard thermostat (1) (2) | Nbr x mm² | 10 x 0,22 | | | | | | | |
| Insulated refrigerant piping | Suction | 1 1/8" | 1 1/8" | 1 1/8" | 1 1/8" | 2 x 1 1/8" | 2 x 1 1/8" | 2 x 1 3/8" | 2 x 1 3/8" |
| | Liquid | 1/2" | 1/2" | 5/8" | 5/8" | 2 x 1/2" | 2 x 5/8" | 2 x 7/8" | 2 x 7/8" |
| Evaporator fan SICH at nominal airflow (3) — Airflow | m³/h | 4 615 | 4 615 | 7 850 | 7 850 | 10 700 | 13 600 | 16 500 | 19 500 |
| Standard ESP | Pa | 62 | 62 | 75 | 75 | 75 | 80 | 80 | 80 |
| ESP With HSD | Pa | 206 | 206 | 214 | 206 | 162 | 230 | 196 | 201 |
| Condenser fan at nominal airflow — Airflow | m³/h | 6 300 | 6 300 | 11 520 | 11 520 | 12 600 | 18 000 | 23 400 | 23 400 |
| Standard ESP | Pa | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Nett dimensions outdoor — Height | mm | 1 392 | 1 392 | 1 526 | 1 526 | 1 592 | 1 641 | 1 794 | 1 794 |
| Length | mm | 1 360 | 1 360 | 1 738 | 1 738 | 2 040 | 2 239 | 2 639 | 2 639 |
| Depth | mm | 728 | 728 | 725 | 725 | 728 | 777 | 857 | 857 |
| Nett dimensions indoor — Height | mm | 590 | 590 | 663 | 663 | 663 | 762 | 838 | 838 |
| Length | mm | 1 357 | 1 357 | 1 738 | 1 738 | 2 038 | 2 239 | 2 639 | 2 639 |
| Depth | mm | 725 | 725 | 725 | 725 | 725 | 777 | 857 | 857 |
| Nett weight — SCOC | kg | - | 315 | 370 | - | 555 | 645 | - | - |
| SCOH | kg | 305 | 325 | 375 | 385 | 560 | 650 | 720 | 750 |
| SICH | kg | 120 | 120 | 165 | 165 | 195 | 240 | 310 | 310 |

*(1) For information only. These should be checked for compliance with local regulations depending also on installation and conductor type.*

*(2) Shield type cable will have a better insulation against electromagnetic perturbation. It is recommended for sensitive site and for communication*

*(3) ESP = External static pressure HSD = High speed drive*

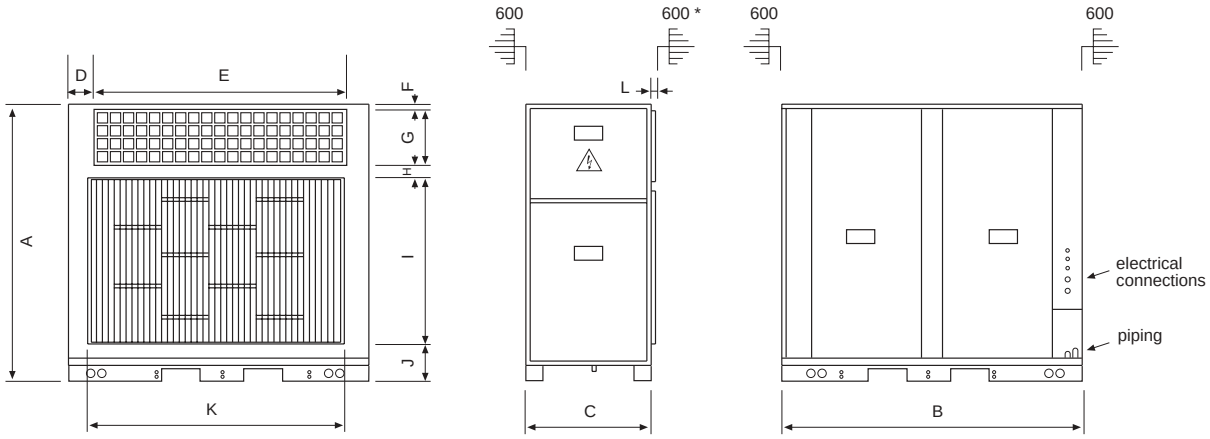
## Low Ambient Regulation




## Outdoor unit conections

# Dimensions and space requirements outdoor units

## SCOC-SCOH 70-76-90-120



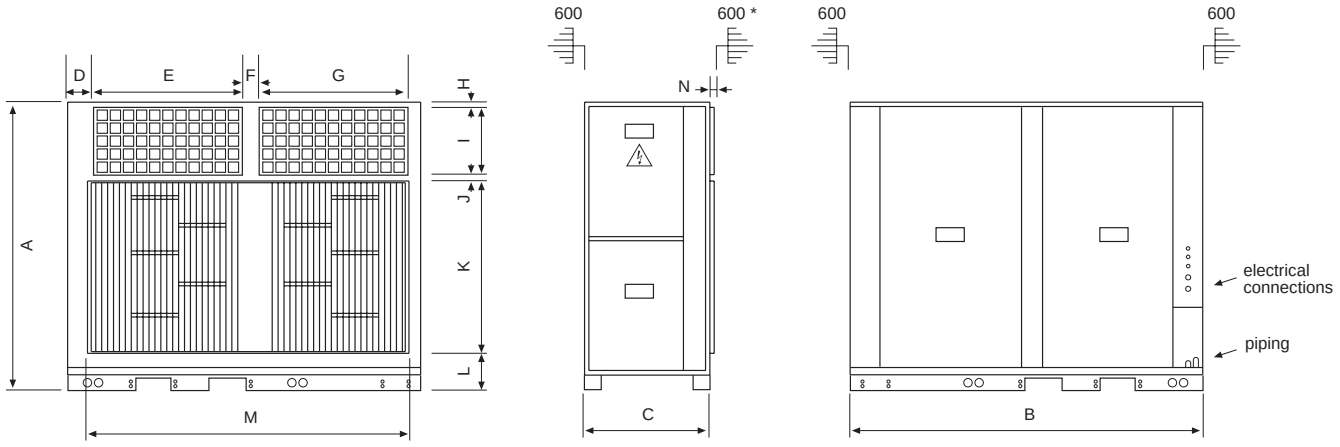

Minimum clearance

* No clearance required if air ducted

| | A | B | C | D | E | F | G | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SCOH 70** | 1 392 | 1 360 | 728 | 147 | 1 069 | 30 | 268 | 37 | 919 | 138 | 1 100 | 24 |
| **SCOC (H) 76** | 1 392 | 1 360 | 728 | 147 | 1 069 | 30 | 268 | 37 | 919 | 138 | 1 100 | 24 |
| **SCOC (H) 90** | 1 526 | 1 738 | 725 | 148 | 1 444 | 30 | 324 | 37 | 996 | 139 | 1 485 | 24 |
| **SCOH 120** | 1 526 | 1 738 | 725 | 148 | 1 444 | 30 | 324 | 37 | 996 | 139 | 1 485 | 24 |

All dimensions in mm

## SCOC-SCOH 150-180-240-300




Minimum clearance

* No clearance required if air ducted

| | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SCOC (H) 150** | 1 592 | 2 040 | 728 | 150 | 861 | 101 | 861 | 30 | 389 | 37 | 997 | 139 | 1 860 | 24 |
| **SCOC (H) 180** | 1 641 | 2 239 | 777 | 148 | 962 | 101 | 962 | 30 | 389 | 37 | 1 047 | 138 | 2 060 | 24 |
| **SCOH 240** | 1 794 | 2 639 | 857 | 148 | 1 162 | 101 | 1 162 | 30 | 389 | 37 | 1 200 | 138 | 2 460 | 24 |
| **SCOH 300** | 1 794 | 2 639 | 857 | 148 | 1 162 | 101 | 1 162 | 30 | 389 | 37 | 1 200 | 138 | 2 460 | 24 |

All dimensions in mm

For indoor unit specifications refer to page 121

# http://unitary-europe.york.com

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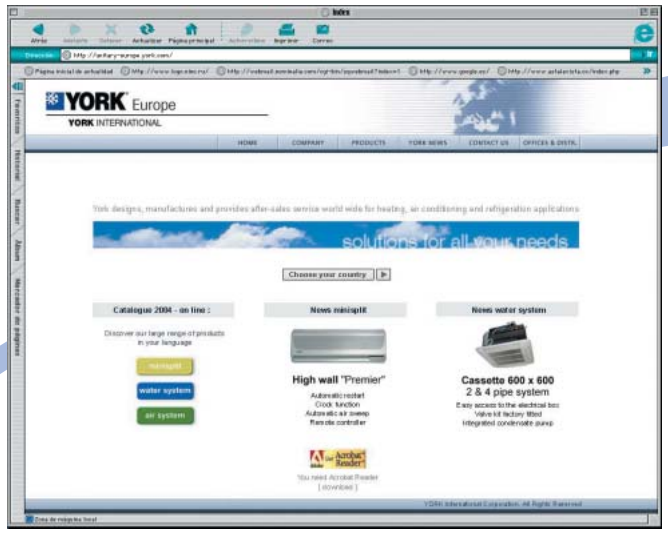


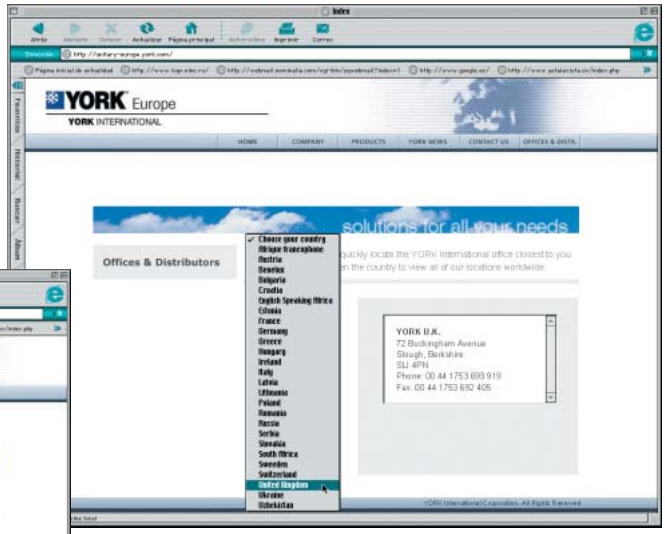

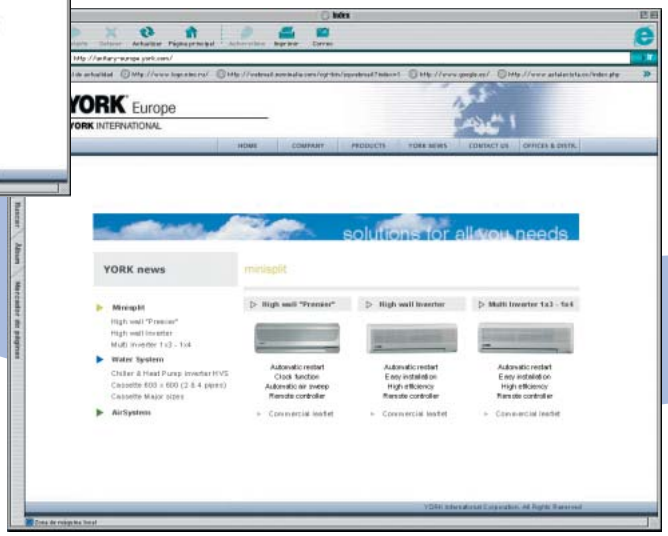


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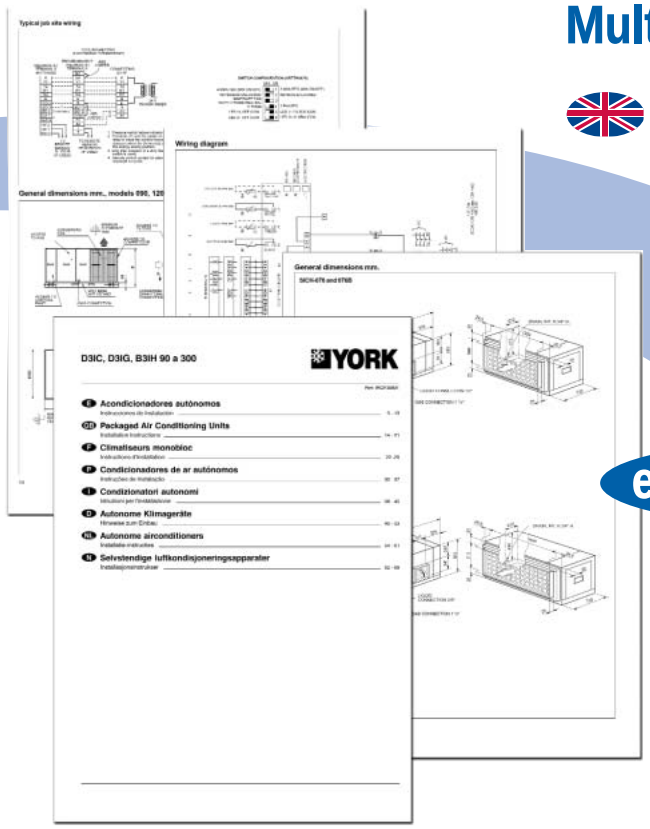
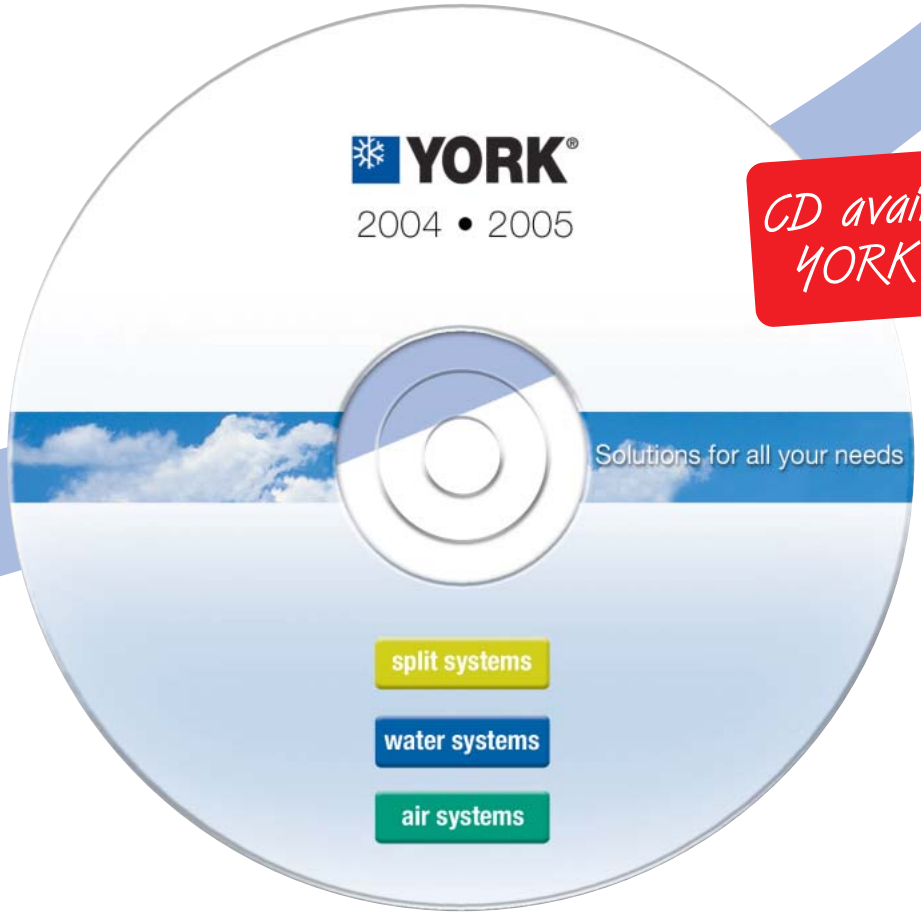
# Multilanguage Technical Information




**easy-direct-clear**

# CD Technical Library and Software




*CD available at YORK office*

Minimum system requirements
- Operating system Windows 98 or superior
- Pentium II processor or superior
- 32 MB of RAM
- Screen resolution 800 x 600 pixels, 16 bits

To wiew all pdf files, the ACROBAT READER 4.0 program is required. If said program is not installed, install the one included in this CD-ROM.

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