

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
— ISO 9002 —



fan heaters



P 80 fan heater with horizontal air flow

The **P 80** series fan heaters are suitable for heating medium-sized to large environments such as warehouses, industrial or commercial premises, gyms, etc.
The **P 80** series consists of 20 models for hot or overheated water operation and 6 models for steam operation.



P 80 - Constructive features

Heat exchanger: consists of copper tubes and aluminium fins secured to the tubes by mechanical expansion. In steam operation models the tube is made of stainless steel and the fins of aluminium.

Enclosure: made of heavy gauge painted (RAL 7035) steel plate, complete with deflecting baffles which can be moved individually by hand to direct the outgoing airflow as required.

Fan: dynamically and statically balanced helical type, made of anti-spark aluminium, keyed directly onto the motor.

Motor: three-phase asynchronous enclosed type motor with IP 44 protection rating and class B windings, in single and dual speed versions:

- for models from P 301 to P 327
 - 4 poles (1400 rpm)
 - 6 poles (900 rpm)
 - 4-8 poles (1400-700 rpm)
- for models P 328 - P329 and P 330
 - 6 poles (900 rpm)
 - 8 poles (700 rpm)
 - 6-8 poles (900-700 rpm)

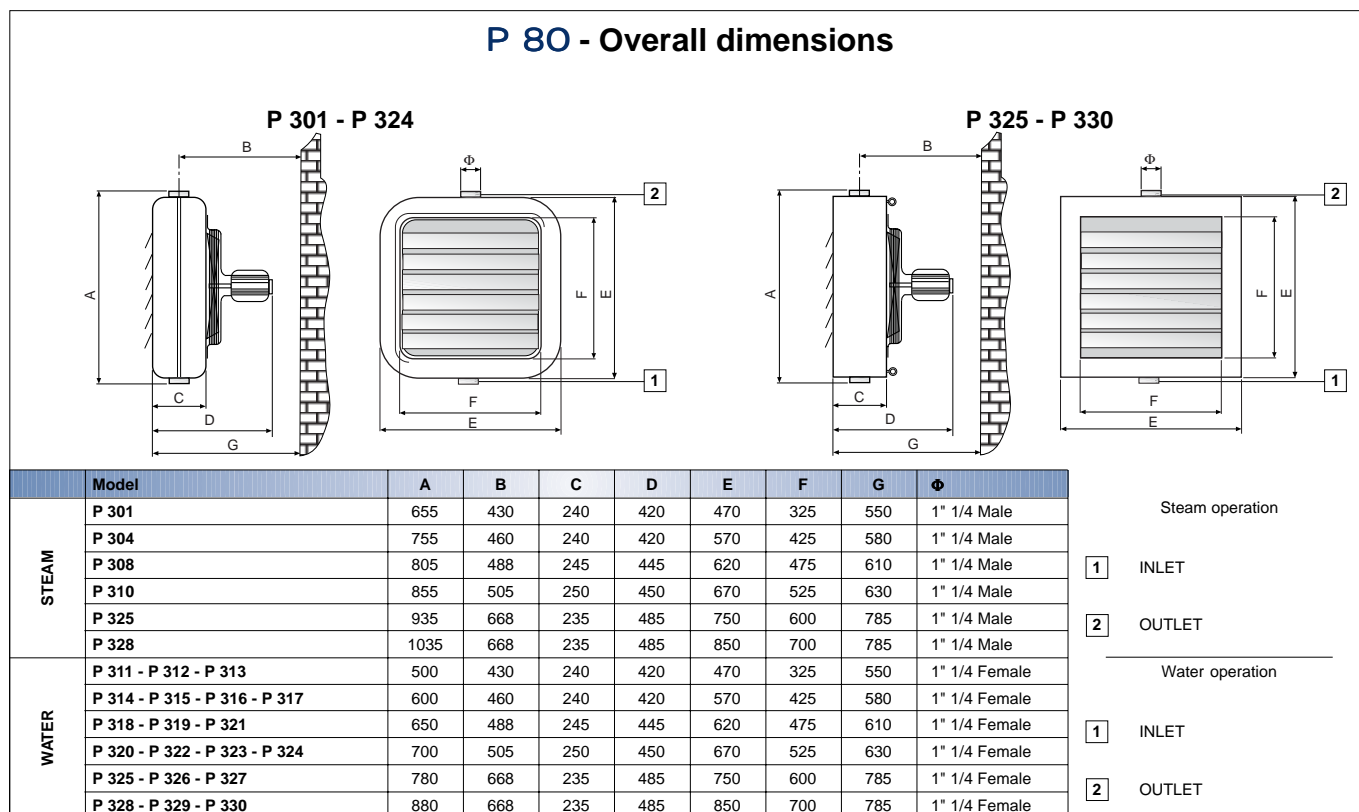
Motors with the following characteristics can be supplied to order:

- 230 V single-phase power (for single speed up to P324, for double speed up to P317) supply with permanently activated capacitor
- protection rating IP 55
- tropicalised construction
- explosion-proof construction EEx-d IIB T3
- 4/6 pole dual-speed motors

Fan unit support: accident-prevention type with 4 equidistant arms and 4 anti-vibrating neoprene couplings.

P 80 - Accessories

Air outlet diffusers and external air intake louvre are available as accessory.



S 80 fan heater with vertical air flow

The **S 80** series fan heaters, arranged for **ceiling installation** and vertical air stream, consists of 16 models for hot or overheated water operation, 9 of which are suitable also for steam operation.

S 80 - Constructive features

Heat exchanger: consists of copper tubes and aluminium fins secured to the tubes by mechanical expansion with steel hydraulic connections;

Fan: dynamically and statically balanced helical type, made of anti-spark aluminium, keyed directly onto the motor;

Motor: three-phase asynchronous enclosed type motor with IP 44 protection rating and class B windings, in single and dual speed versions:

- for models from S 610 to S 841
 - 4 poles (1400 rpm)
 - 6 poles (900 rpm)
 - 4-8 poles (1400/700 r.p.m.)
- for models S 1110 and S 1120
 - 6 poles (900 rpm)
 - 8 poles (700 rpm)
 - 6-8 poles (900-700 rpm)

motors with the following characteristics can be supplied to order:

- 230 V single-phase power (for single speed up to P324, for double speed up to P317) supply with permanently activated capacitor
- protection rating IP 55
- tropicalised construction
- explosion-proof construction EEx-d IIB T3
- 4/6 pole dual-speed motors

The motor is placed vertically inside a steel sheet cone which protects it from the heat radiated by the heat exchanger.



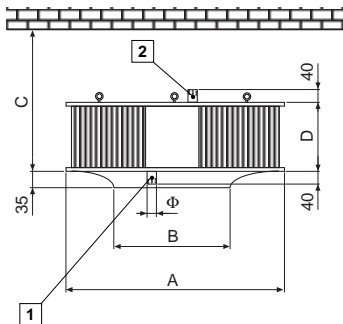
S 80 - Accessories

- Truncated cone diffuser
- Anemometric diffuser
- Deflecting fin diffuser

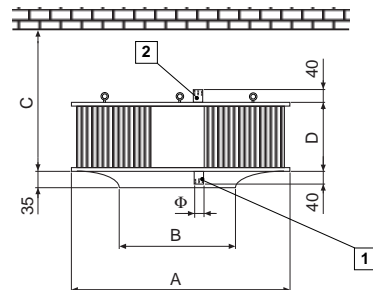
On request S80 series fan heaters can be arranged with an auxiliary drip tray to allow the operation with chilled water.

S 80 - Overall dimensions

S 610 - S 620 - S 630
S 810 - S 820 - S 830 - S 840
S 1110 - S 1120



S 611 - S 621 - S 631
S 811 - S 821 - S 831 - S 841



Model	A	B	C	D	Φ
S 610 - S 611	685	416	380	115	1" 1/2 Male
S 620 - S 621	685	416	380	165	1" 1/2 Male
S 630 - S 631	685	416	400	265	1" 1/2 Male
S 810 - S 811	910	520	400	218	1" 1/2 Male
S 820 - S 821	910	520	400	268	1" 1/2 Male
S 830 - S 831	910	568	420	318	1" 1/2 Male
S 840 - S 841	910	568	520	418	1" 1/2 Male
S 1110	1170	768	680	373	1" 1/2 Male
S 1120	1170	768	680	473	1" 1/2 Male

Water operation

Steam operation

- 1** INLET
- 2** OUTLET

- 1** OUTLET
- 2** INLET

RATED TECHNICAL DATA

	P 80	Fan speed rpm	Heating capacity		Air flow m³/h	Sound pressure dB/A		S 80	Fan speed rpm	Heating capacity		Air flow m³/h	Sound Pressure dB/A
			kW	kcal/h						kW	kcal/h		
WATER OPERATION	P 311/4	1400	6,5	5591	1202	44	WATER OPERATION	S 610/4	1400	14,5	12450	2600	57
	P 311/6	900	5,2	4496	770	33		S 610/6	900	11,0	9450	1750	47
	P 312/4	1400	8,4	7246	1066	42		S 611/4	1400	16,0	13760	2600	57
	P 312/6	900	6,4	5524	690	31		S 611/6	900	12,1	10420	1750	47
	P 313/4	1400	10,9	9407	1084	53		S 620/4	1400	19,2	16550	2600	59
	P 313/6	900	8,0	6852	722	40		S 620/6	900	14,6	12530	1750	49
	P 314/4	1400	14,7	12365	2450	52		S 621/4	1400	21,5	18500	2600	59
	P 314/6	900	10,8	9320	1515	39		S 621/6	900	16,3	14000	1750	49
	P 315/4	1400	17,9	15426	2285	52		S 630/4	1400	28,4	24400	4200	60
	P 315/6	900	13,3	11420	1466	41		S 630/6	900	21,5	18470	2850	50
	P 316/4	1400	18,8	16169	2448	52		S 631/4	1400	32,3	27800	4200	60
	P 316/6	900	14,4	12364	1640	42		S 631/6	900	24,5	21040	2850	50
	P 317/4	1400	23,0	19762	2456	57		S 810/4	1400	38,7	33250	6200	62
	P 317/6	900	16,4	14092	1516	47		S 810/6	900	29,3	25170	4200	55
	P 318/4	1400	23,4	20163	3378	57		S 811/4	1400	43,6	37520	6200	64
	P 318/6	900	18,8	16143	2600	46		S 811/6	900	33,0	28400	4200	56
	P 319/4	1400	25,8	22194	3679	56		S 820/4	1400	47,0	40400	6200	64
	P 319/6	900	19,8	17065	2422	46		S 820/6	900	35,6	30580	4200	56
	P 320/4	1400	30,6	26339	4718	58		S 821/4	1400	51,9	44630	7450	69
	P 320/6	900	24,3	20896	3177	49		S 821/6	900	39,3	33780	5050	58
	P 321/4	1400	33,2	25580	3387	58		S 830/4	1400	60,0	51600	7450	68
	P 321/6	900	23,8	20446	2125	49		S 830/6	900	45,4	39050	5050	57
	P 322/4	1400	37,6	32310	5366	59		S 831/4	1400	68,3	58730	9150	68
	P 322/6	900	26,6	22893	3090	51		S 831/6	900	51,7	44450	6200	57
	P 323/4	1400	40,6	34931	4944	60		S 840/4	1400	72,6	62450	9150	68
	P 323/6	900	28,1	24129	2927	53		S 840/6	900	55,0	47260	6200	57
	P 324/4	1400	43,0	36970	4926	60		S 841/4	1400	78,7	67670	9150	69
	P 324/6	900	30,1	25885	2975	54		S 841/6	900	59,6	51210	6200	58
	P 325/4	1400	43,6	37500	9500	56		S 1110/6	900	90,1	77500	12200	59
	P 325/6	900	34,9	30000	6100	42		S 1120/6	900	109,9	94500	17500	61
	P 326/4	1400	59,1	50800	8500	52		S 610/4	1400	24,5	21070	1202	57
	P 326/6	900	47,0	40400	6000	37		S 620/4	1400	33,5	28810	1084	59
P 327/4	1400	67,4	58000	8050	54	S 630/4	1400	49,5	42570	2285	60		
P 327/6	900	53,3	45800	5600	41	S 810/4	1400	59,5	51170	2456	62		
P 328/6	900	54,8	47100	8900	50	S 820/4	1400	75,0	64500	3679	64		
P 328/8	700	46,6	40100	6900	45	S 830/4	1400	89,0	76540	3387	68		
P 329/6	900	72,7	62500	8050	52	S 840/4	1400	113,0	97180	4944	68		
P 329/8	700	61,3	52700	6100	48	S 1110/6	900	135,0	116100	9500	59		
P 330/6	900	80,2	69000	8700	58	S 1120/6	900	172,0	147920	6000	61		
P 330/8	700	66,6	57300	6800	50	Heating capacity, water operation: water temperatures 85-75°C, air temperature 20°C Heating capacity, steam operation: steam pressure 1 bar (120°C), air temperature 20°C Sound pressure levels calculated at 4 m distance in free field conditions							
STEAM OPERATION	P 301/4	1400	13,6	11696	1202	44							
	P 301/6	900	11,0	9460	770	33							
	P 304/4	1400	26,7	22962	2450	52							
	P 304/6	900	21,2	18232	1515	39							
	P 308/4	1400	33,1	28466	3378	57							
	P 308/6	900	29,4	25284	2600	46							
	P 310/4	1400	44,7	38442	4718	58							
	P 310/6	900	37,3	32078	3177	49							
	P 325/4	1400	78,3	67338	9500	56							
	P 325/6	900	64,5	55470	6100	42							
P 328/6	900	87,3	75078	8900	50								
P 328/8	700	75,2	64672	6900	45								

Heating capacity, water operation: water temperatures 85-75°C, air temperature 20°C
Heating capacity, steam operation: steam pressure 1 bar (120°C), air temperature 20°C
Sound pressure levels calculated at 4 m distance in free field conditions