

Air Conditioning
Cooling



Heating
Ventilation

HVAC air curtain

Type PopulAir

HVAC®

Air curtains

Standard air curtain

PopulAir



The range of **PopulAir** air curtains consist of a self-supporting steel-sheet housing with sound-insulating lining and a maintenance flap at the bottom. Our air curtains are TÜV SÜD certified.



The air curtain is finishing in coating RAL 9016 (white).

Anodized natural-coloured aluminium blow ribs, which are parallel adjustable in the angle of 15°.

The intake louver consists of perforated steel-sheet coated in device colours with micro grid as filter behind it.

Optional with an intake box for bottom suction and a mounting frame for flush ceiling installations as well as suction and blow sliding units for the installation in suspended ceilings.

Hot water design with heat exchanger in copper-aluminium, default connectors at the left top. Adoptions for hot water connectors at the right top or at the left or right side on request.

Electrical design with resistor heaters 400 V, corrosion-resistant with helical ribs and thermal overheating protection. The double-surved anti-vibration radial fans, equipped with energy saving EC motor, are supplied with direct current and are extremely silent in the operation and provide the power-specific airflows M8 rivet nuts at the top for ceiling installation.

Airflow regulation via five-stage touch button control, hand/auto and summer/winter operation (hot water heating) or five-stage air control and three-stage heat control (electrical heating 400 V).

HVAC®

Air curtains

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Standard equipment (included in the price of the basic model)

Comfort controls standard

Type H5 CW-EC (hot water heater), five-stage air control with touch button, hand/auto and summer/winter toggles, in an attractive surface-mounted housing (122 x 70 x 35 mm), with concealed brackets.

Type H5 CE-EC (electrical heater), five-stage air control and three-stage heating power with touch button, in an attractive surface-mounted housing (122 x 70 x 35 mm), with concealed brackets.

De luxe controls (optional)

Type H5 DW-EC (hot water heater), energy saving control, five-stage air control with touch button, hand/auto and summer/winter toggles, complete with temperature sensor, timer, room temperature protection, in an attractive surface-mounted housing (122 x 70 x 35 mm), with concealed brackets.

Type H5 DE-EC (electrical heater), energy saving control, five-stage air control and three-stage heating power with touch button, complete with temperature sensor, timer, room temperature protection, in an attractive surface-mounted housing (122 x 70 x 35 mm), with concealed brackets.

PopulAir Accessories (optional)

Antifreeze thermostat type FTM-E, assembled, design with capillary pipe sensor
Length of capillary pipe 3 m, constructed as change-over switch for devices with **H5 CW-EC and H5 CE-EC** control.

Thermostatic regulator valve (assembled or separately enclosed)

Type MR2-20L ¾" and MR2-25L 1"

Thermostatic regulator valve (straight-way valve) **MR2-2XL** with a thermostat head for lining-up of a constant blow temperature, separately enclosed.

Type MR3-20L ¾" and MR3-25L 1"

Thermostatic regulator valve (three-way valve) **MR3-2XL** with thermostat head for lining-up of a constant blow temperature, separately enclosed.

Thermoelectric stop valve

Type TEV-20L ¾" and TEV-25L 1"

Thermoelectric stop valve of type **TEV-2XL** 230 V, closed de-energized, separately enclosed.

Scope of application:

To shut-off water supply, for the summer switching, for the connection of controls or to regulate the flow of water with facility control.

Vibration-cushioned ceiling bracket

Type DHD 4/6

Up to 2.0 m length DHD 4, from 2.5 m length of the devices onwards DHD 6.

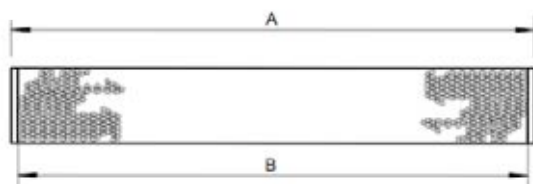
The length of the ceiling bracket type DHD 4/6 can be adjusted. Standard bracket length 1.0 meter 4 or 6 pieces.

Specifications

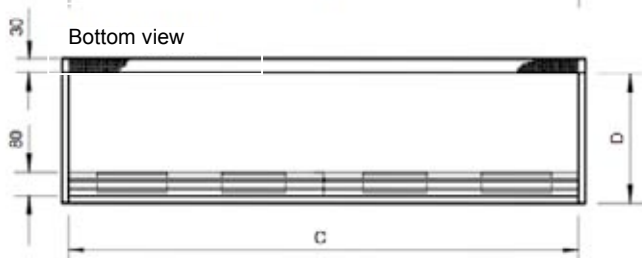
Series		PopulAir-1					PopulAir-2					PopulAir-3				
Widths	cm	100	150	200	250	300	100	150	200	250	300	100	150	200	250	300
Installation height	max. m	2,3	2,3	2,3	2,3	2,3	2,5	2,5	2,5	2,5	2,5	2,8	2,8	2,8	2,8	2,8
Blow velocity	max. m/s	5,4	5,4	5,4	5,4	5,4	7,9	7,3	7,7	7,6	7,8	9,7	9,6	9,5	9,4	10,4
Air flow	3. Stage m³/h	1200	1800	2400	3000	3600	1800	2700	3600	4500	5400	2700	3600	5400	6300	7200
Noise level min.-max.*	dB(A)	40-53	40-54	40-55	40-56	40-57	40-54	40-55	40-56	40-57	40-58	40-55	40-56	40-57	40-58	40-59
Heating power max. (80/60°C)**	kW	12,4	16,3	18,8	22,7	41,0	16,4	21,1	24,2	29,2	54,5	27,3	28,3	34,9	40,4	73,3
(60/40°C)**	kW	6,7	12,2	17,3	19,7	29,3	8,7	16,2	23,2	25,8	39,1	15,3	21,7	33,7	36,2	53,4
Flows (80/60°C)**	m³/h	0,6	0,7	0,8	1,0	1,8	0,7	0,9	1,1	1,3	2,4	1,2	1,2	1,5	1,8	3,2
(60/40°C)**	m³/h	0,3	0,5	0,8	0,9	1,3	0,4	0,7	1,0	1,1	1,7	0,7	1,0	1,5	1,6	2,3
Water pressure (80/60°C)**	kPa	4,9	9,4	2,9	3,6	10,2	8,4	15,4	4,6	5,8	17,8	25,8	29,4	10,3	11,9	19,5
(60/40°C)**	kPa	1,5	12,7	4,7	2,8	6,4	2,5	21,3	8,0	4,7	11,0	8,6	43,4	18,9	9,8	22,1
Pipe connections	Supply	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Return	inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Heating capacity	Electrical Supply	kW	3/6/9	4/8/12	6/12/18	6/12/18	3/6/9	4/8/12	6/12/18	6/12/18	10/20/30	6/12/18	7,5/15/22,5	10/20/30	10,6/21,3/32	10,6/21,3/32
Electrical Data	V	230	230	230	230	230	230	230	230	230	230	230	230	230	230	230
	kW	0,26	0,30	0,52	0,65	0,59	0,30	0,44	0,59	0,74	0,89	0,44	0,59	0,89	1,04	1,18
	A	1,2	1,4	2,4	3,0	2,8	1,4	2,1	2,8	3,5	4,2	2,1	2,8	4,2	4,9	5,6
Weights "S"	kg	45	76	105	135	152	47	78	108	140	156	50	80	110	142	160

Dimensions Model S, U and Z

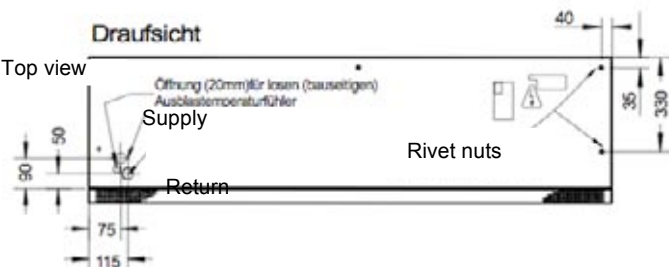
Front view



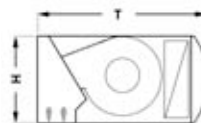
Bottom view



Top view



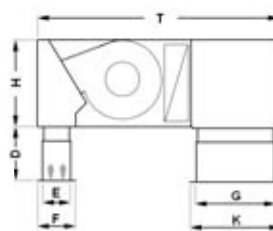
POPULAIR-S	1	2	3
Width B [mm]	1000 - 3000		
Height H [mm]	260		
Depth T [mm]	460		



POPULAIR-U	1	2	3
Width W [mm]	1000 - 3000		
Height H [mm]	260		
Depth T [mm]	720		



POPULAIR-Z	1	2	3
Width W [mm]	1000 - 3000		
Height H [mm]	260		
Depth T [mm]	720		





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