

Planair

Fan assisted radiator for efficient heating and cooling on low-temperature systems



Features and Benefits

- Heating and cooling for low temperature systems
- High outputs at conventional radiator sizes
- Various control options (Digital, Thermostat, BMS)
- Factory fitted TRV or PICV valves
- Left or right handed connections



Features and Benefits

Material	1.25mm steel casing powder coated in RAL 9016 (Traffic White). Heat exchanger manufactured from composite copper pipes and aluminium fins
Height (mm)	621
Widths (mm)	780, 1030 , 1220
Models	36
Outputs ($\Delta 30^{\circ}\text{C}$) (watts)	414 - 3427

High output heat exchanger

Optimised for low temperature systems, improving efficiencies of air & ground source heat pumps. Manufactured from composite copper pipes and aluminium fins for the best possible heat transfer.

Lightweight EPP chassis

Enables quiet operation with maximum performance. EPP is a recyclable closed-cell moulded foam.



Durable EC tangential fan

Ensures quiet operation for noise-sensitive applications. Powered by an efficient EC motor with low energy consumption, the durable tangential fan provides continuously variable fan speed control for on-demand heat supply. 28°C LTC (adjustable on request).



Factory fitted valve kits

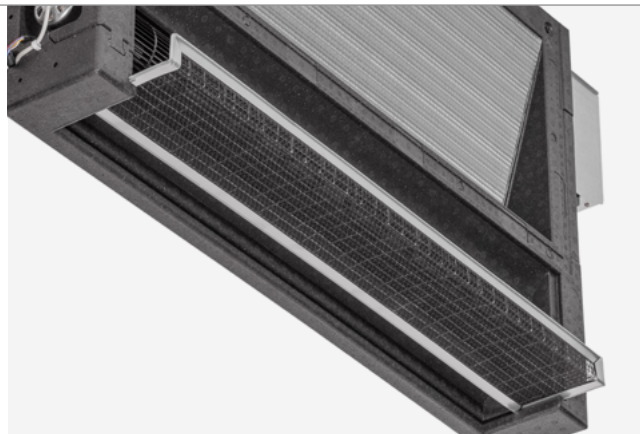
Consists of a thermostatic valve, actuator, lockshield and corrugated stainless steel pipes (terminating in 15mm copper pipe) for flexible and easy connection. Automatic hydraulic balancing is also possible with the differential pressure-independent valve option.



Features and Benefits

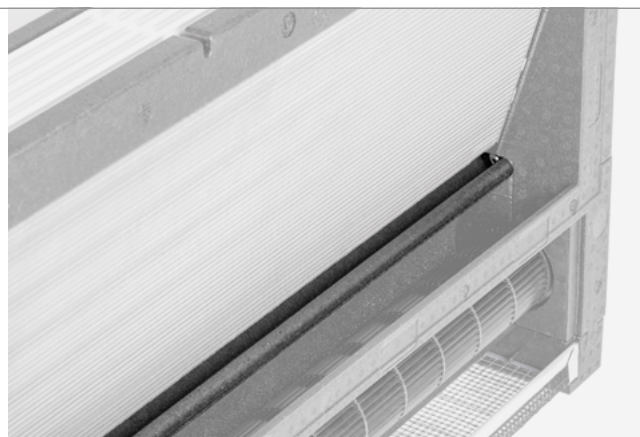
ISO Coarse Class Air Filter

Guards against accidental intrusion and ingress of dirt and dust. Simple to vacuum when installed for easy cleaning.



Integrated condensate tray

For applications requiring cooling. The integrated condensate tray with free drainage for heat exchangers and valves is made of EPP with a specially treated surface for safe drainage of any condensate produced.



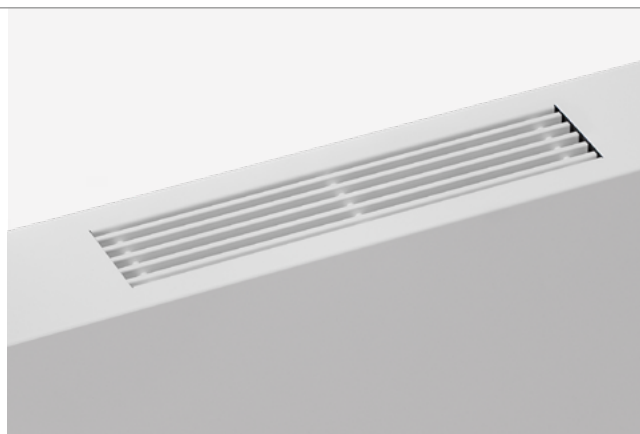
Multiple control methods

To suit project specific requirements. Control methods include an intuitive touch display (heating and cooling), conventional or smart thermostatic head (heating only) and control by room thermostat or BMS.



Fixed top grille

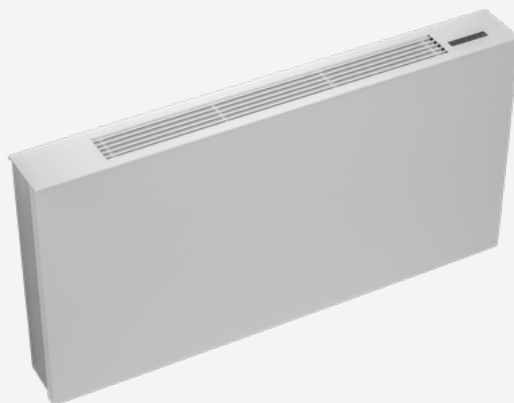
Manufactured from aluminium, locked in place by the casing.



Control Methods

Display

- Intuitive touch screen display
- Heating & cooling
- Left hand connections (as standard) or right hand connections (by request)
- 3-speed fan control: auto, low (1), medium (2), boost (3)
- 230V supply



Thermostat

- Operation with conventional or smart thermostatic head (M30 x 1.5)
- Heating only
- Left hand connections (as standard) or right hand connections (by request)
- 3-speed fan control: auto, low (1), medium (2), boost (3)
- 230V supply



Electromechanical / BMS

- Control via room thermostat or BMS (0-10V signal)
- Heating & cooling
- Left hand connections (as standard) or right hand connections (by request)
- 230V supply



Heating Performance Data

Display & Thermostat Models

	Operating Temp (°C)	Fan Speed	Heat Output (W)	Sound Pressure Level* (dB(A))	Sound Power Level (dB(A))	SFP (Wl/s)	Air Flow (l/s)	Power Consumption (W)	Current Consumption (mA)
Width (mm) 780 Weight (kg) 17	75-65-20	3	3260	40	48	0.286	68	19.50	161
		2	2495	30	38	0.238	47	11.30	104
		1	1760	20	28	0.238	30	7.30	74
	55-45-20	3	1689	40	48	0.286	68	19.50	161
		2	1346	30	38	0.238	47	11.30	104
		1	992	20	28	0.238	30	7.30	74
	45-35-20	3	960	40	48	0.286	68	19.50	161
		2	764	30	38	0.238	47	11.30	104
		1	588	20	28	0.238	30	7.30	74
Weight (kg) 17	35-30-20	3	659	40	48	0.286	68	19.50	161
		2	545	30	38	0.238	47	11.30	104
		1	397	20	28	0.238	30	7.30	74
Width (mm) 1030 Weight (kg) 19.7	75-65-20	3	5040	40	48	0.266	103	27.30	233
		2	3941	30	38	0.235	74	17.30	163
		1	2622	20	28	0.246	45	11.00	114
	55-45-20	3	2641	40	48	0.266	103	27.30	233
		2	2140	30	38	0.235	74	17.30	163
		1	1495	20	28	0.246	45	11.00	114
	45-35-20	3	1515	40	48	0.266	103	27.30	233
		2	1268	30	38	0.235	74	17.30	163
		1	891	20	28	0.246	45	11.00	114
Weight (kg) 19.7	35-30-20	3	1034	40	48	0.266	103	27.30	233
		2	850	30	38	0.235	74	17.30	163
		1	606	20	28	0.246	45	11.00	114
Width (mm) 1220 Weight (kg) 21.8	75-65-20	3	6485	40	48	0.249	140	34.80	298
		2	4918	30	38	0.227	93	21.20	202
		1	3244	20	28	0.261	53	13.70	143
	55-45-20	3	3402	40	48	0.249	140	34.80	298
		2	2685	30	38	0.227	93	21.20	202
		1	1858	20	28	0.261	53	13.70	143
	45-35-20	3	1954	40	48	0.249	140	34.80	298
		2	1598	30	38	0.227	93	21.20	202
		1	1159	20	28	0.261	53	13.70	143
Weight (kg) 21.8	35-30-20	3	1333	40	48	0.249	140	34.80	298
		2	1068	30	38	0.227	93	21.20	202
		1	755	20	28	0.261	53	13.70	143

Heat outputs according to DIN EN 16430 'Fan-assisted radiators, convectors and trench heater'

*The sound pressure levels were calculated with an assumed room insulation of 8 dB(A)

For performance data at other operating temperatures please contact head office

Heating Performance Data

Electromechanical/BMS Compatible Models

	Operating Temp (°C)	Switching Stage	Heat Output (W)	Sound Pressure Level* (dB(A))	Sound Power Level (dB(A))	SFP (W/l/s)	Air Flow (l/s)	Power Consumption (W)	Current Consumption (mA)	
Width (mm)	780	75-65-20	10	3284	41	49	0.288	69	19.9	163
			8	2776	34	42	0.250	55	13.6	121
			6	2191	26	34	0.233	40	9.3	90
			4	1507	17	25	0.250	25	6.4	67
			2	694	10	18	0.402	11	4.3	49
		55-45-20	10	1699	41	49	0.288	69	19.9	163
			8	1475	34	42	0.250	55	13.6	121
			6	1203	26	34	0.233	40	9.3	90
			4	863	17	25	0.250	25	6.4	67
			2	414	10	18	0.402	11	4.3	49
	45-35-20	10	964	41	49	0.288	69	19.9	163	
		8	856	37	45	0.250	55	13.6	121	
		6	705	29	37	0.233	40	9.3	90	
		4	516	20	28	0.250	25	6.4	67	
		2	266	13	21	0.402	11	4.3	49	
	Weight (kg) 17	35-30-20	10	662	41	49	0.288	69	19.9	163
			8	581	37	45	0.250	55	13.6	121
			6	485	29	37	0.233	40	9.3	90
			4	345	20	28	0.250	25	6.4	67
			2	170	13	21	0.402	11	4.3	49
Width (mm)	1030	75-65-20	10	5040	40	48	0.266	103	27.3	233
			8	4605	36	44	0.250	90	22.6	201
			6	3635	28	36	0.233	66	15.4	149
			4	2500	19	27	0.250	42	10.5	111
			2	1151	12	20	0.401	18	7.2	82
		55-45-20	10	2641	40	48	0.266	103	27.3	233
			8	2446	36	44	0.250	90	22.6	201
			6	1995	28	36	0.233	66	15.4	149
			4	1432	19	27	0.250	42	10.5	111
			2	686	12	20	0.401	18	7.2	82
	45-35-20	10	1515	40	48	0.266	103	27.3	233	
		8	1420	36	44	0.250	90	22.6	201	
		6	1193	28	36	0.233	66	15.4	149	
		4	856	19	27	0.250	42	10.5	111	
		2	441	12	20	0.401	18	7.2	82	
	Weight (kg) 19.7	35-30-20	10	1034	40	48	0.266	103	27.3	233
			8	963	36	44	0.250	90	22.6	201
			6	796	28	36	0.233	66	15.4	149
				582	19	27	0.250	42	10.5	111
			2	283	12	20	0.401	18	7.2	82

Heat outputs according to DIN EN 16430 'Fan-assisted radiators, convectors and trench heater'

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For performance data at other operating temperatures please contact head office

Electromechanical/BMS Compatible Models

Heat outputs according to DIN EN 16430 'Fan-assisted radiators, convectors and trench heater'
 *The sound pressure levels were calculated with an assumed room insulation of 8 dB(A)
 For performance data at other operating temperatures please contact head office

Cooling Performance Data

Display Models

	Operating Temp (°C)	Switching Stage	Cooling Output (W)	Sound Pressure Level* (dB(A))	Sound Power Level (dB(A))	SFP (Wl/s)	Air Flow (l/s)	Power Consumption (W)	Current Consumption (mA)
Width (mm) 780 Weight (kg) 17	16-18-27	3	456	40	48	0.286	68	19.50	161
		2	445	30	38	0.238	47	11.30	104
		1	307	20	28	0.238	30	7.30	74
	7-12-27	3	1276	40	48	0.286	68	19.50	161
		2	963	30	38	0.238	47	11.30	104
		1	655	20	28	0.238	30	7.30	74
Width (mm) 1030 Weight (kg) 19.7	16-18-27	3	913	40	48	0.266	103	27.30	233
		2	701	30	38	0.235	74	17.30	163
		1	455	20	28	0.246	45	11.00	114
	7-12-27	3	2065	40	48	0.266	103	27.30	233
		2	1592	30	38	0.235	74	17.30	163
		1	1039	20	28	0.246	45	11.00	114
Width (mm) 1220 Weight (kg) 21.8	16-18-27	3	1174	40	48	0.249	140	34.80	298
		2	873	30	38	0.227	93	21.20	202
		1	561	20	28	0.261	53	13.70	143
	7-12-27	3	2600	40	48	0.249	140	34.80	298
		2	1943	30	38	0.227	93	21.20	202
		1	1258	20	28	0.261	53	13.70	143

Cooling outputs according to DIN EN 1397: 2022 'Water-air fan coils, test method for performance determination'

*The sound pressure levels were calculated with an assumed room insulation of 8 dB(A)

For performance data at other operating temperatures please contact head office

If the Plan-Air radiators are operated at system temperatures below the dew point, condensate will be produced. The condensate from the heat exchanger drips into the condensate pan below and can be discharged from both the left and right sides of the condensate pan.

In order to discharge the condensate without any problems and without mechanical assistance, the condensate must be directed into a rigid line with a 2% gradient to a suitable disposal point.

With an **optional condensate pump**, the resulting condensate can even be transported to the next disposal point with no need for a sloping pipe. The condensate level is monitored by a capacitive sensor. Depending on the level of the tank, the condensate pump is activated, while the speed of the pump and thus the flow rate vary. The pump has a maximum sound power level of 20 dB(A), with a delivery height of up to 20m being overcome.

The condensate tray can be extended with our **valve condensate tray**, to be factory fitted at the time of order (optional extra).

Cooling Performance Data

Electromechanical/BMS Compatible Models

	Operating Temp (°C)	Switching Stage	Cooling Output (W)	Sound Pressure Level* (dB(A))	Sound Power Level (dB(A))	SFP (W/l/s)	Air Flow (l/s)	Power Consumption (W)	Current Consumption (mA)
Width (mm) 780 Weight (kg) 17	16-18-27	10	458	41	49	0.288	69	19.9	163
		8	499	34	42	0.250	55	13.6	121
		6	388	26	34	0.233	40	9.3	90
		4	256	17	25	0.250	25	6.4	67
		2	104	10	18	0.402	11	4.3	49
	7-12-27	10	1286	41	49	0.288	69	19.9	163
		8	1077	34	42	0.250	55	13.6	121
		6	808	26	34	0.233	40	9.3	90
		4	562	17	25	0.250	25	6.4	67
		2	229	10	18	0.402	11	4.3	49
Width (mm) 1030 Weight (kg) 19.7	16-18-27	10	913	40	48	0.266	103	27.3	233
		8	828	36	44	0.250	90	22.6	201
		6	643	28	36	0.233	66	15.4	149
		4	432	19	27	0.250	42	10.5	111
		2	183	12	20	0.401	18	7.2	82
	7-12-27	10	2065	40	48	0.266	103	27.3	233
		8	1876	36	44	0.250	90	22.6	201
		6	1463	28	36	0.233	66	15.4	149
		4	988	19	27	0.250	42	10.5	111
		2	396	12	20	0.401	18	7.2	82
Width (mm) 1220 Weight (kg) 21.8	16-18-27	10	1185	41	49	0.251	141	35.4	302
		8	1075	34	42	0.237	124	29.3	260
		6	835	26	34	0.227	88	20.0	193
		4	561	17	25	0.261	53	13.7	143
		2	238	10	18	0.550	17	9.3	106
	7-12-27	10	2623	41	49	0.251	141	35.4	302
		8	2384	34	42	0.237	124	29.3	260
		6	1860	26	34	0.227	88	20.0	193
		4	1258	17	25	0.261	53	13.7	143
		2	541	10	18	0.550	17	9.3	106

Cooling outputs according to DIN EN 1397: 2022 'Water-air fan coils, test method for performance determination'

*The sound pressure levels were calculated with an assumed room insulation of 8 dB(A)

For performance data at other operating temperatures please contact head office

Accessories

TRV Heads



White (anti-tamper)
VLVTRV-A421



Chrome
VLVTRV-P

Room Thermostats

Heating Only

PA-TSH

- Control of up to 10 Plan-Air units
- Setting of room temperature and pre-setting of speed using rotary dials
- Room frost protection



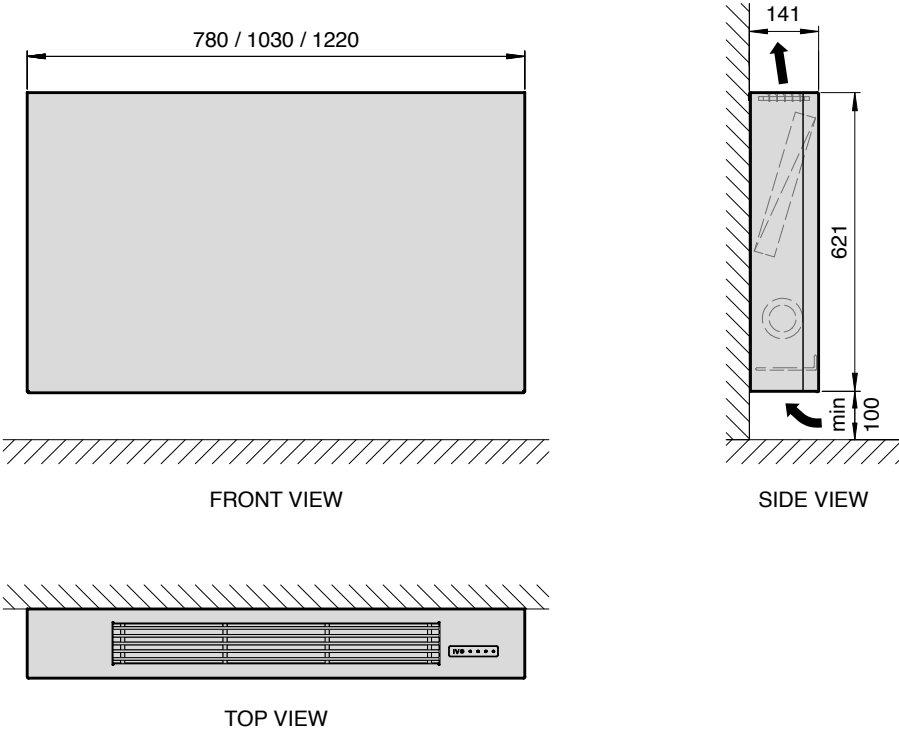
Heating and Cooling

PA-TSHC

- Control of up to 5 Plan-Air units
- Manual (3 speed) or Automatic fan speed control
- Room frost protection



Technical Drawings





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