



► **TIP**
Unit Heaters

TIP

Unit heaters, wall- and ceiling-mounted units

► **Technical Catalogue**

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TIP:
The Unit Heater -
Economic Miracle.



TIP unit heaters installed on the ceiling heat the showrooms belonging to the Seyfarth car dealership in Gotha.

01 ▶ Product Information



TIP – Well-tempered air. As much as you need.

With its TIP unit heater, Kampmann has a simple solution for the optimum, centrally controlled heating and ventilation of buildings of all kinds, industrial and commercial workplaces, warehouses or greenhouses.

With a housing made of sendzimir galvanised sheet steel with threaded rods fitted as standard, TIP unit heaters are ideal for wall-mounting as well as ceiling-mounting. Standard equipment also includes single-row louvre and the motor guard.

Functional principle

Air is drawn in through the sheet metal sickle-blade silently-operating fan and is blown through the copper/aluminium heat exchanger into the room. The models with large heat exchange depth are ideal for use with low temperature operation.

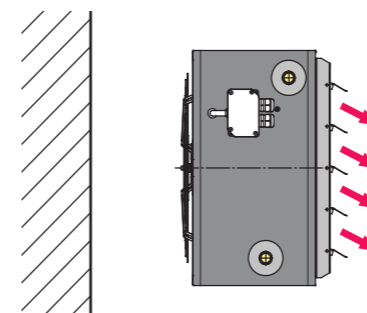
Air direction

TIP unit heaters are supplied as standard with single-row louvre. The air can optionally be discharged through a double-row louvre of air diffusers, both available as an accessory.

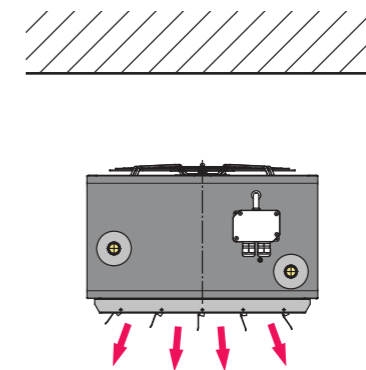
Available ex-stock

Four different sizes are available with the motor versions, two-stage three-phase and/or single-stage single-phase ex-stock.

Example of heating, wall-mounted



Example of heating, ceiling-mounted



Product Data



Product Features

- ▶ Sickle-blade, whisper-quiet fan with optimised full nozzle
- ▶ Factory-fitted single-row ceiling- or wall-mounted louvre
- ▶ Easy to install
- ▶ Short delivery times
- ▶ Unbeatable in terms of value for money



Features

- ▶ Four sizes
- ▶ 2-stage, three-phase or 1-stage, single-phase
- ▶ Whisper-quiet sickle-blade fan

- Heating** ▶ LPHW
- Installation** ▶ Wall-mounted or ceiling-mounted
- Air flow** ▶ Recirculating air
- Heat exchanger** ▶ Copper/aluminium
- KaControl** ▶ ---

Heat output

- Heat output¹⁾ [kW]**
- ▶ 11.1–77.2

- Operating limits**
- ▶ Max. operating pressure: 16 bar
- ▶ Max. entering water temperature: 120 °C
- ▶ Max. entering air temperature: 40 °C

Uses

Buildings of all kinds, which are to be ideally heated and ventilated with central control.

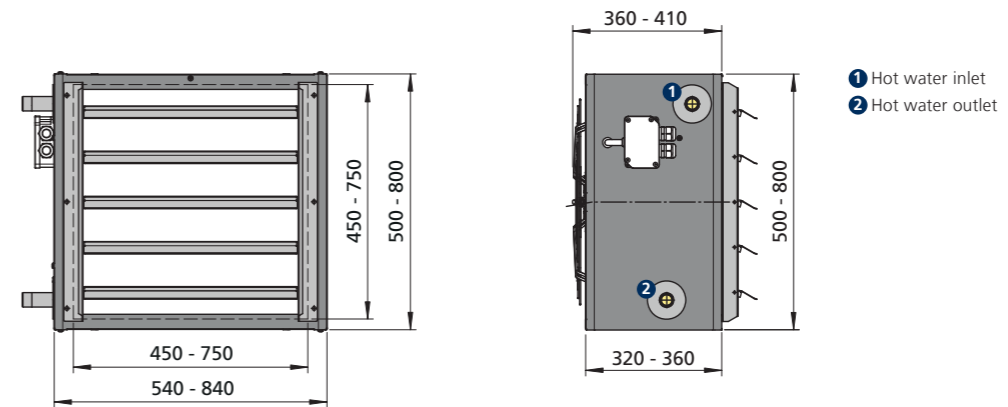
- Warehouses and logistics buildings
- Sports halls
- Retail chains
- Commercial and industrial buildings

Selection Aid: Overview of Models

Series	Dimensions (H x W x D)	Heat outputs ¹⁾	Air volume	Motor	Further information
	[mm]	[kW]	[m³/h]		
54	500x540x320	11.1–18.0	1480–2360	2-stage, 3-phase, 400 V	▶ Page 14–15
				1-stage, single-phase, 230 V	
55	600x640x320	17.7–30.9	2700–4140	2-stage, 3-phase, 400 V	▶ Page 14–15
				1-stage, single-phase, 230 V	
56	700x740x320	27.3–47.9	3720–5680	2-stage, 3-phase, 400 V	▶ Page 16–17
				1-stage, single-phase, 230 V	
57	800x840x360	43.4–77.2	6150–8770	2-stage, 3-phase, 400 V	▶ Page 16–17
				1-stage, single-phase, 230 V	

Dimensions

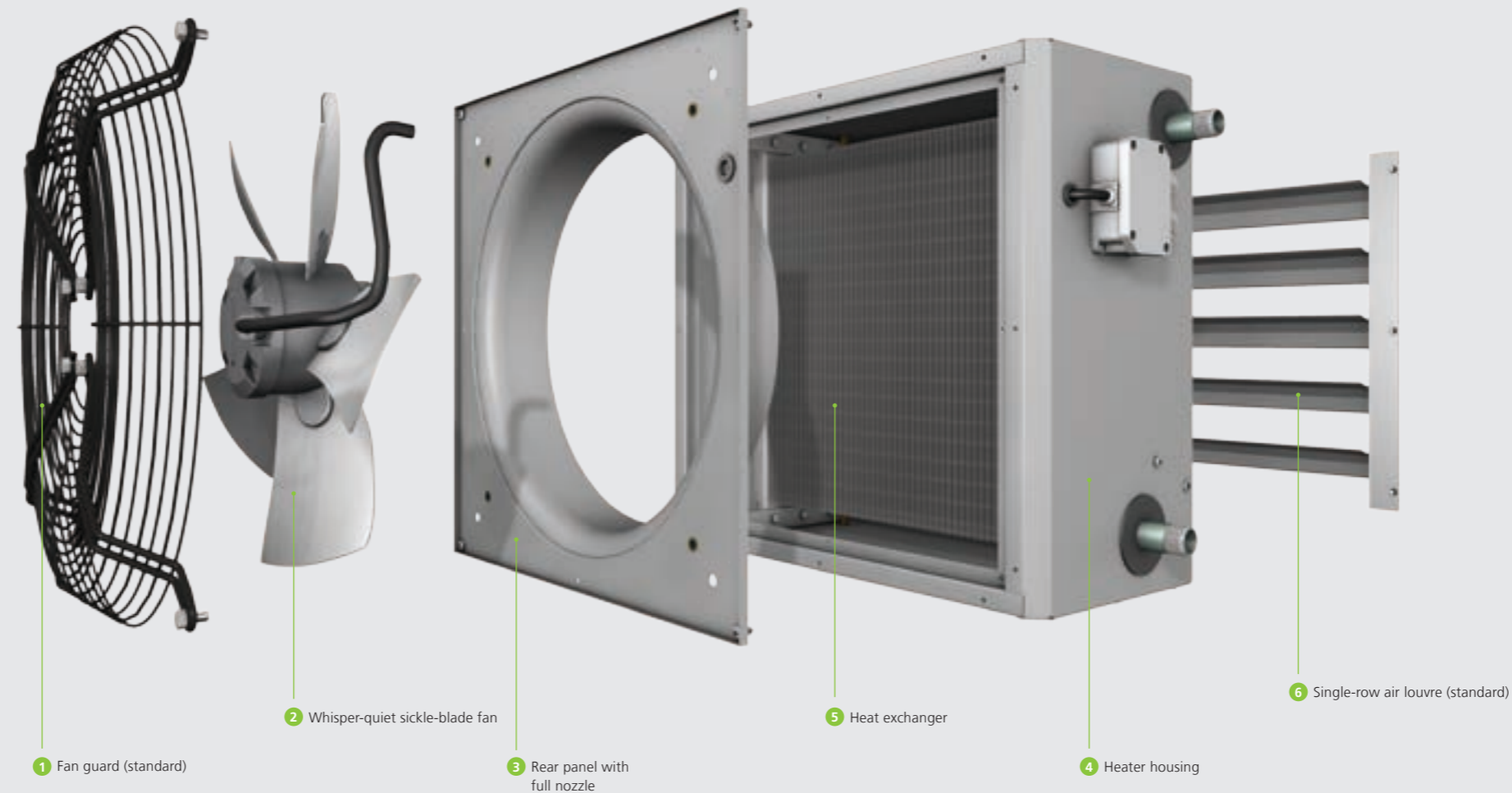
Series 54–57



¹⁾ at PWW 75/65, t_{L1}=20 °C

¹⁾ at PWW 75/65, t_{L1}=20 °C

TIP at a Glance



Features

1 Fan guard (standard):

- ▶ screw-fixed as standard with sickle-blade silent fan

2 Sickle-blade, whisper-quiet fan, in line with ERP 2015 (2009/125/EC):

- ▶ 2-stage, three-phase or 1-stage, single-phase sickle-blade, whisper-quiet fan with external terminal box
- ▶ High-efficiency due to the aerodynamic design of the rotor housing
- ▶ Electrical thermal class F
- ▶ Motor protection: IP 54
- ▶ Balancing at two levels; balancing quality according to G 6, DIN ISO 1940 part 1

- ▶ fan characteristic line coordinated to the unit housing enables the speed to be controlled by voltage reduction
- ▶ Integrable into the fan hub

3 Rear panel with full nozzle:

- ▶ Full nozzle, optimised to the flow characteristics of the fan

4 Unit heater housing:

- ▶ Self-supporting, made of galvanized steel are sheet
- ▶ Standard fixing holes for wall- or ceiling-mounting
- ▶ Resistant to damage
- ▶ Minimal depth, ideal for the straightforward attachment of outlet-side accessories (2-row louvre, four-way diffuser)

- ▶ Painted, to match the colour of the building ceiling on request

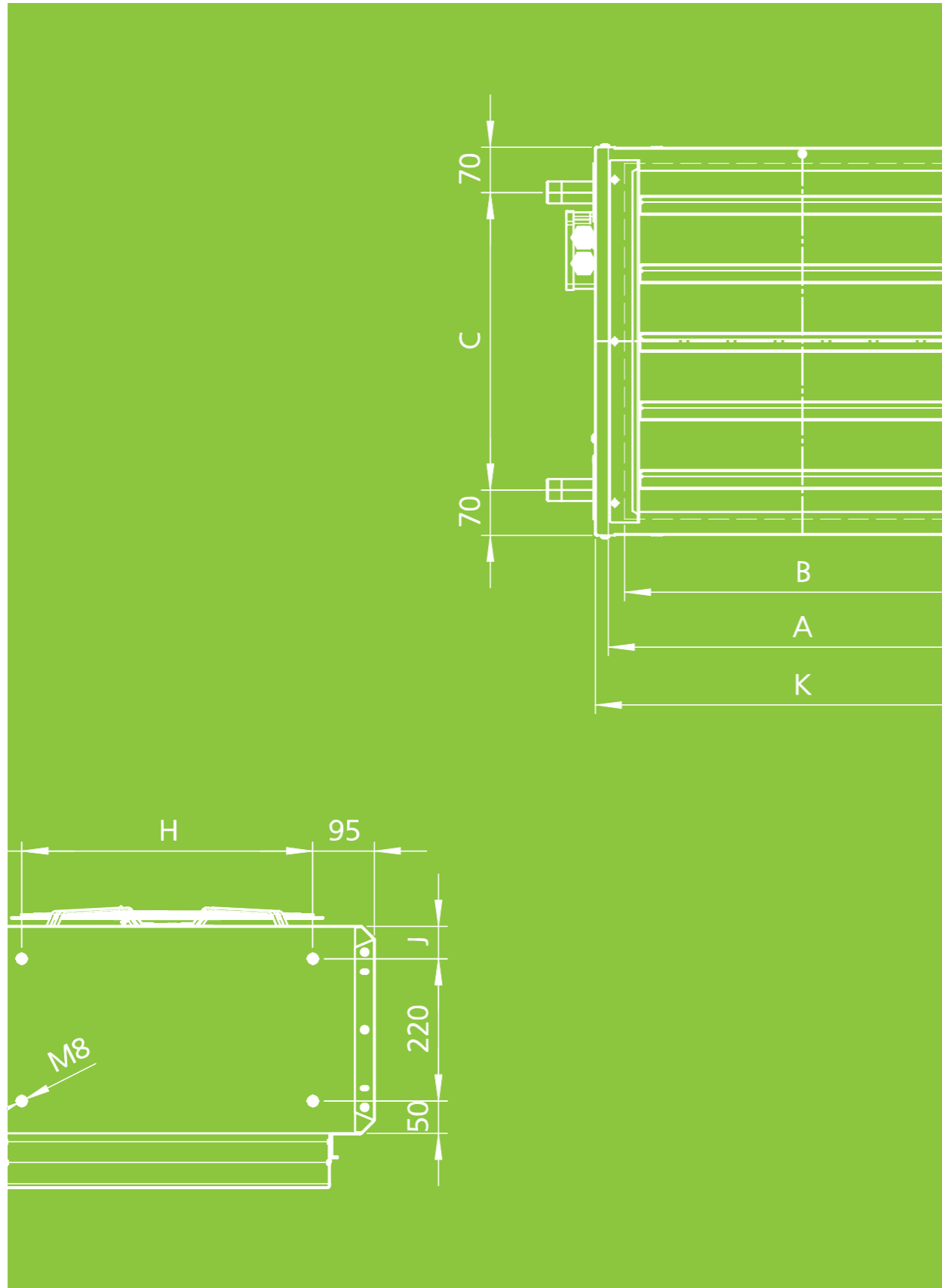
5 Heat exchanger::

- ▶ Copper/aluminium heat exchanger, especially light, with high heat outputs from minimal dimensions
- ▶ Suitable for low temperature heating systems and LPHW heating systems
- ▶ Steel distributor and collector
- ▶ Not suitable for steam and thermal oil
- ▶ Hollow copper tubes with aluminium fins, connected by expanded pipes, perfect for lasting heat transfer
- ▶ Cannot be used in areas with high levels of dust or oil

6 Single-row air louvre (standard):

- ▶ for wall or ceiling-mounting
- ▶ achieves excellent throw

02 ▶ Technical Data



General

EU Directive 2009/125/EU

ERP 2015-conformity

The European Commissions' ERP Directive ("Energy Related Products") evaluates and modifies the requirements of technical products in energy-related applications. According to the ERP Directive ("LOT 11"), the efficiency requirements have heightened on fans with an electric drive output of 125 watts to 500 kilowatts. A number of fans can no longer be marketed after the second stage enters into force on 1st January 2015.

The inlet nozzles used in the unit has to be taken into account as well as the fan in terms of energy. The TIP range of unit heaters is solely fitted with ERF-compliant fans. The conformity of the TIP range has been laboratory-tested and proved. The measurements can be provided on request.

The TIP uni heater range and the components used are produced and tested in line with the applicable state of the art. The requirements of the applicable norms, e.g. Machinery Directive, EN60335 (Safety of Electrical Equipment) and EMC are met.

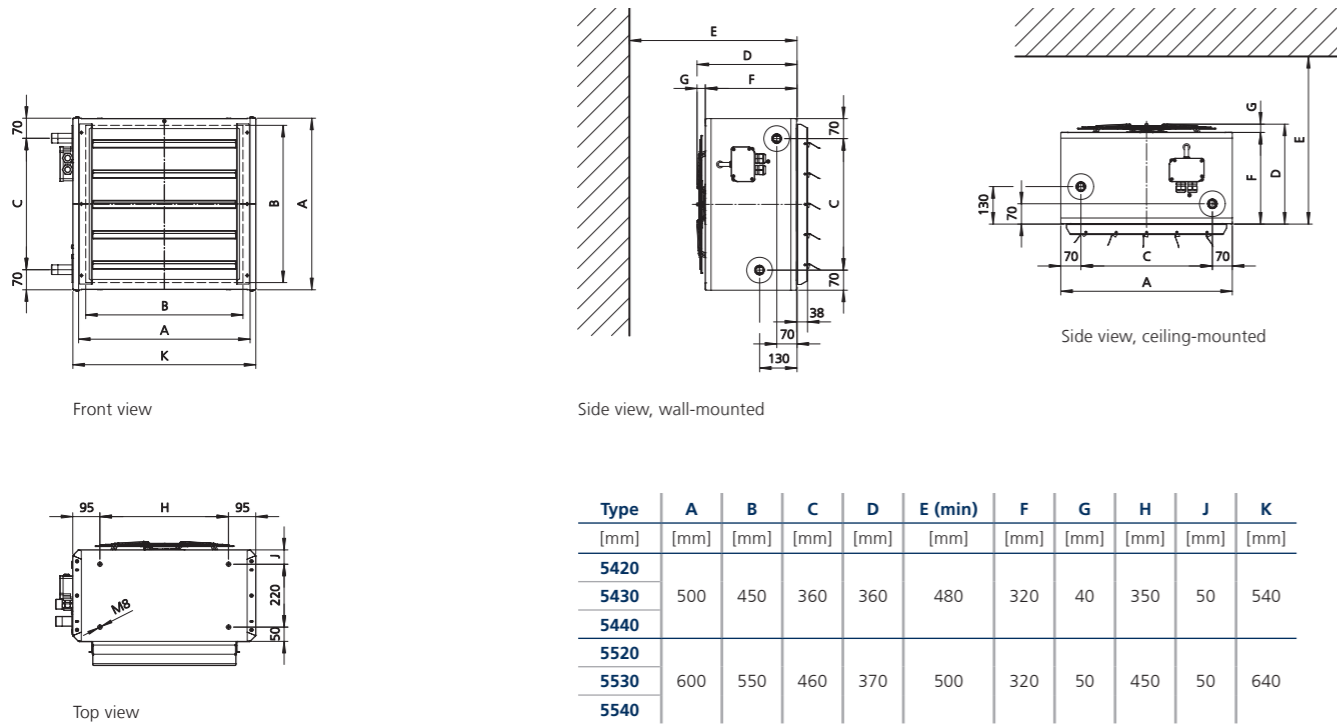


Test chamber for air performance measurements according to EN ISO 3745 (formerly DIN 24163); Kampmann R & D Centre (FEC)

TIP

Series 54 and 55

Technical Drawings (Dimensions in mm)



Specifications

Weights

Type	Weight [kg]	Water content [l]
5420	27	1.6
5430	28	2.1
5440	29	2.6
5520	36	2.2
5530	37	3.0
5540	38	3.8

Nominal power

Switching stage	[1/min]
1	1050
2	1350

Connection

1"

Series 54 Outputs

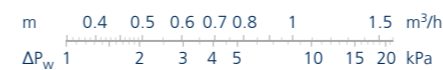
Type	Switching stage (three-phase)	Heat outputs ¹⁾				Air volume [m ³ /h]	Throw (wall-mounted) [m]	Height when ceiling-mounted (max.)		2-stage, three-phase 400 V		1-stage, single-phase 230 V		Sound pressure level ²⁾ [dB(A)]	Sound power level [dB(A)]
		at LPHW 55/45 °C		at LPHW 75/65 °C				Louvre [m]	Air diffuser [m]	Current uptake [W]	Power consumption [A]	Current uptake [W]	Power consumption [A]		
		Q [kW]	t _{l2} [°C]	Q [kW]	t _{l2} [°C]										
5420	1	6.3	30.0	11.1	37.5	1870	13	4.7	3.0	90	0.12	---	---	49	65
	2	7.1	28.9	12.5	35.6	2360	18	5.5	3.5	100	0.21	170	0.78	55	71
5430	1	7.9	33.9	13.8	44.3	1670	13	4.5	2.9	90	0.12	---	---	49	65
	2	9.1	32.5	15.9	41.9	2140	17	5.2	3.3	100	0.21	170	0.78	55	71
5440*	1	8.8	37.5	15.4	50.6	1480	12	4.1	2.7	90	0.12	---	---	49	65
	2	10.3	36.0	18.0	48.0	1890	16	4.8	3.1	100	0.21	170	0.78	55	71

Series 55 Outputs

Type	Switching stage (three-phase)	Heat outputs ¹⁾				Air volume [m ³ /h]	Throw (wall-mounted) [m]	Height when ceiling-mounted (max.)		2-stage, three-phase 400 V		1-stage, single-phase 230 V		Sound pressure level ²⁾ [dB(A)]	Sound power level [dB(A)]
		at LPHW 55/45 °C		at LPHW 75/65 °C				Louvre [m]	Air diffuser [m]	Current uptake [W]	Power consumption [A]	Current uptake [W]	Power consumption [A]		
		Q [kW]	t _{l2} [°C]	Q [kW]	t _{l2} [°C]										
5520	1	10.1	28.9	17.7	35.6	3330	17	5.7	3.6	190	0.30	---	---	51	67
	2	11.3	28.0	19.8	34.1	4140	23	6.5	4.1	260	0.53	300	1.32	59	75
5530	1	13.8	33.3	24.2	43.3	3060	16	5.4	3.4	190	0.30	---	---	51	67
	2	15.7	32.1	27.4	41.2	3810	21	6.2	3.9	260	0.53	300	1.32	59	75
5540*	1	15.2	36.6	26.6	49.0	2700	13	5.0	3.2	190	0.30	---	---	51	67
	2	17.7	35.1	30.9	46.5	3430	19	5.8	3.7	260	0.53	300	1.32	59	75

Water resistance

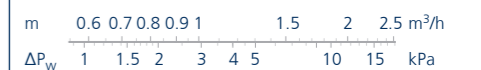
Type 5420



Type 5430



Type 5440



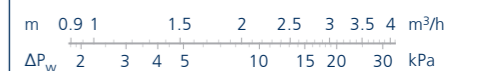
Type 5520



Type 5530



Type 5540



m = Water volumetric flow [m³/h]
 ΔPw = Pressure loss [kPa]

Make use of our online calculation programs to calculate your heat outputs and flow rates with a couple of clicks!

► Kampmann.co.uk/tip/calculation

^{*)} especially suitable for low temperature operation

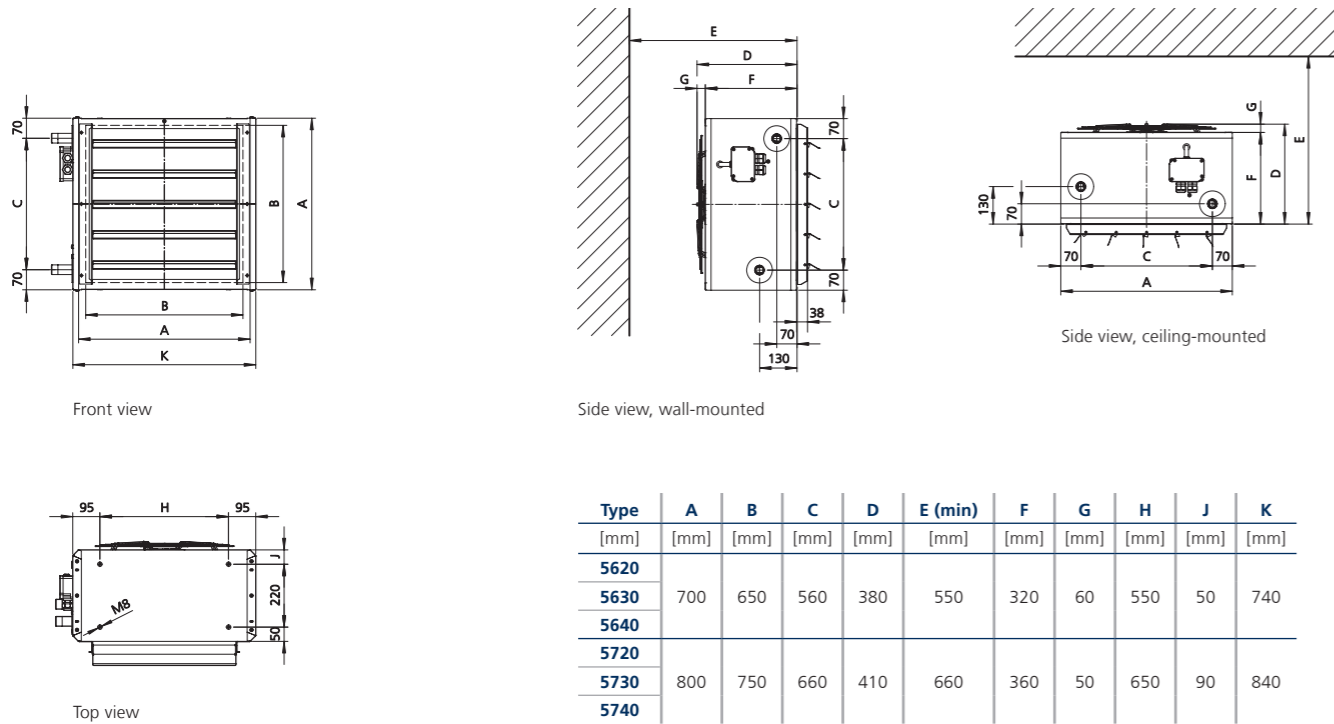
¹⁾ at room temperature t_{l1} = 20 °C

²⁾ In an open room at a distance of 5 m measured from the unit

TIP

Series 56 and 57

Technical Drawings (Dimensions in mm)



Specifications

Weights

Type	Weight [kg]	Water content [l]
5620	47	3.4
5630	49	4.5
5640	51	5.6
5720	64	4.8
5730	66	6.2
5740	68	7.6

Nominal power

Switching stage	[1/min]
1	700
2	900

Connection

1¼" (Series 56),
1½" (Series 57)

Make use of our online calculation programs to calculate your heat outputs and flow rates with a couple of clicks!

► Kampmann.co.uk/tip/calculation

Series 56 Outputs

Type	Switching stage (three-phase)	Heat outputs ¹⁾				Air volume [m³/h]	Throw (wall-mounted) [m]	Height when ceiling-mounted (max.)		2-stage, three-phase 400 V		1-stage, single-phase 230 V		Sound pressure level ²⁾ [dB(A)]	Sound power level [dB(A)]
		at LPHW 55/45 °C		at LPHW 75/65 °C				Louvre [m]	Air diffuser [m]	Current uptake [W]	Power consumption [A]	Current uptake [W]	Power consumption [A]		
		Q [kW]	t _{l2} [°C]	Q [kW]	t _{l2} [°C]										
5620	1	15.6	30.2	27.3	37.9	4490	20	6.2	3.6	220	0.46	---	---	51	67
	2	17.7	29.1	30.9	36.0	5680	28	7.2	4.1	360	0.83	360	1.65	58	74
5630	1	20.7	34.8	36.2	45.8	4120	19	5.9	3.4	220	0.46	---	---	51	67
	2	23.9	33.4	41.9	43.4	5260	25	6.8	3.9	360	0.83	360	1.65	58	74
5640*	1	23.3	38.4	40.8	52.3	3720	17	5.1	3.0	220	0.46	---	---	51	67
	2	27.4	36.9	47.9	49.7	4750	23	6.4	3.7	360	0.83	360	1.65	58	74

Series 57 Outputs

Type	Switching stage (three-phase)	Heat outputs ¹⁾				Air volume [m³/h]	Throw (wall-mounted) [m]	Height when ceiling-mounted (max.)		2-stage, three-phase 400 V		1-stage, single-phase 230 V		Sound pressure level ²⁾ [dB(A)]	Sound power level [dB(A)]
		at LPHW 55/45 °C		at LPHW 75/65 °C				Louvre [m]	Air diffuser [m]	Current uptake [W]	Power consumption [A]	Current uptake [W]	Power consumption [A]		
		Q [kW]	t _{l2} [°C]	Q [kW]	t _{l2} [°C]										
5720	1	24.8	30.0	43.4	37.4	7320	28	7.2	3.9	360	0.62	---	---	57	73
	2	27.3	29.1	47.7	36.0	8770	38	8.0	4.3	530	1.0	740	3.3	61	77
5730	1	32.2	34.1	56.4	44.6	6730	26	6.9	3.8	360	0.62	---	---	57	73
	2	36.9	32.8	64.5	42.3	8500	36	7.9	4.2	530	1.0	740	3.3	61	77
5740*	1	37.4	37.9	65.5	51.3	6150	22	6.5	3.6	360	0.62	---	---	57	73
	2	44.1	36.3	77.2	48.5	7960	32	7.6	4.1	530	1.0	740	3.3	61	77

Water resistance

Typ 5620



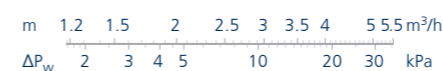
Typ 5630



Typ 5640



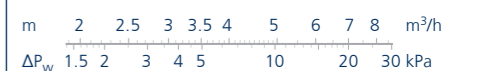
Typ 5720



Typ 5730



Typ 5740



m = Water volumetric flow [m³/h]
ΔPw = Pressure loss [kPa]

^{*)} especially suitable for low temperature operation

¹⁾ at room temperature t_{l1} = 20 °C

²⁾ In an open room at a distance of 5 m measured from the unit

03 ▶ Design Information



Information on Planning and Design

The size of TIP unit heaters depends on the heat output calculated and also on the structural conditions.

Water resistance

Calculate the water resistance using the water resistance diagrams (pages 15 and 17). This is formed from:

- ▶ the heat output Q_{eff}
- ▶ the water temperature difference $\Delta t_w = t_{w1} - t_{w2}$
- ▶ The volumetric flow rate $m = \frac{Q_{\text{eff}}}{\Delta t_w} \times 0.86$

Noise

There is minimal noise from these units due to the aerodynamic design of the sickle-blade, whisper-quiet fan. Flow noise is reduced because of the sickle-shaped design of the profiled aluminium blades combined with the optimised inlet nozzle. The uniform spread over the entire frequency range, minimising blade passing noise, reduces unpleasant peaks of noise. Nevertheless, take into account the permissible noise levels when designing unit heaters. The A-rated total noise levels, for both sound pressure and sound power, are given in the performance tables on pages 15 and 17.

Sound Pressure Level

The A-rated sound pressure levels given in the technical data on pages 15 and 17 apply to the free-flowing air volume at a distance of 5 metres from the unit in an anechoic chamber. The actual sound pressure level may differ significantly from the given figures, depending on the room geometry, absorption capacity of the space, equipment, accessories etc.

Sound Power Level

The sound power level describes the noise emission from the units, independent of the space and distance. The sound pressure level can be determined if the spatial geometry and absorption behaviour is known. The sound power levels were determined based on the enveloping surface method in line with DIN 45635-56.

04 ▶ Controls



Control Accessories

Kampmann offers an extensive range of control accessories for each required function:

- ▶ Speed controllers 2-stage / 5-stage / 7-stage
- ▶ Continuously variable speed control; for maximum efficiency
- ▶ Thermostats and temperature controls; optionally with timer program
- ▶ Valves + valve actuators
- ▶ Repair switch

Motor Protection

Thermal contacts (temperature monitors) are embedded in the motor windings, which open when the maximum winding temperature of 155 °C is exceeded.

Commercial motor protection switch or bi-metal trips are not suitable as motor protection with multi-stage operated motors.

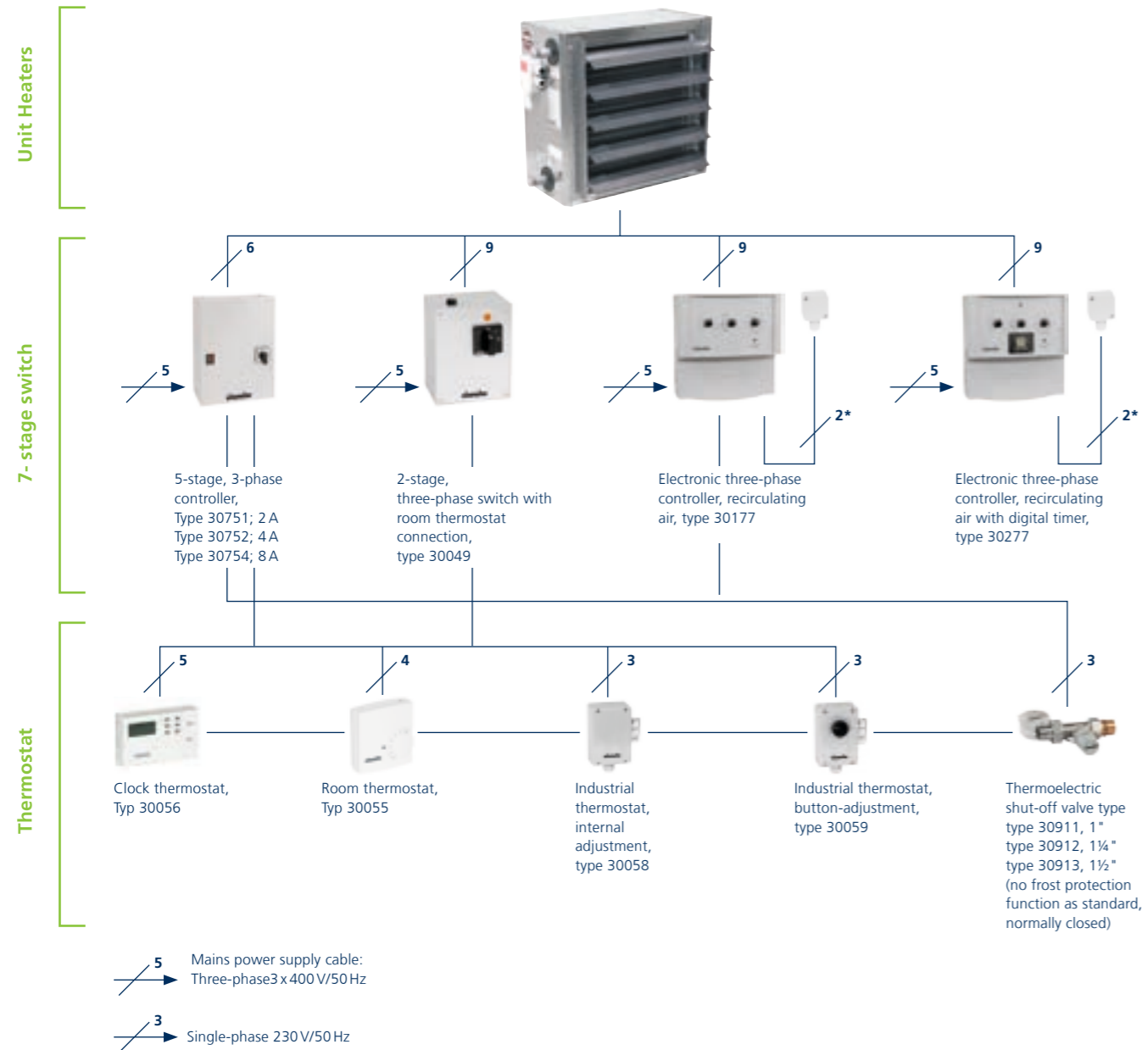
In a Group Circuit

- ▶ Thermal contacts are connected in series. This configuration secures as many motors as needed by the motor protection device.
- ▶ Thermal contacts are connected in series. This configuration secures as many motors as needed by the motor protection device. Total power for the connected heaters should not exceed the maximum rating of the switching device. In the event of a fault (e.g. 2-phase, mechanical obstruction, bearing failure), ensure that the unit is not switched on again accidentally. All Kampmann speed controls are fitted with a switch-on lock in the event of a fault.
- ▶ Switch on again by turning the stage switch to zero
- ▶ Automatic restart after power failure with switch devices connected to a room thermostat

2-stage, 3-phase motor

Maximum connectable unit heaters per switch

Unit heater with two-stage, three-phase motor	Switching device					
	30751	30752	30754	2-stage, three-phase switch with room thermostat connection, type 30049	Electronic 2-stage, three-phase controller, recirculating air, type 30177	Electronic 2-stage, three-phase controller, recirculating air with digital timer, type 30277
	[Quantity]	[Quantity]	[Quantity]	[Quantity]		
54	8	17	35	30		
55	3	7	14	14		
56	2	4	8	10		
57	1	3	7	7		

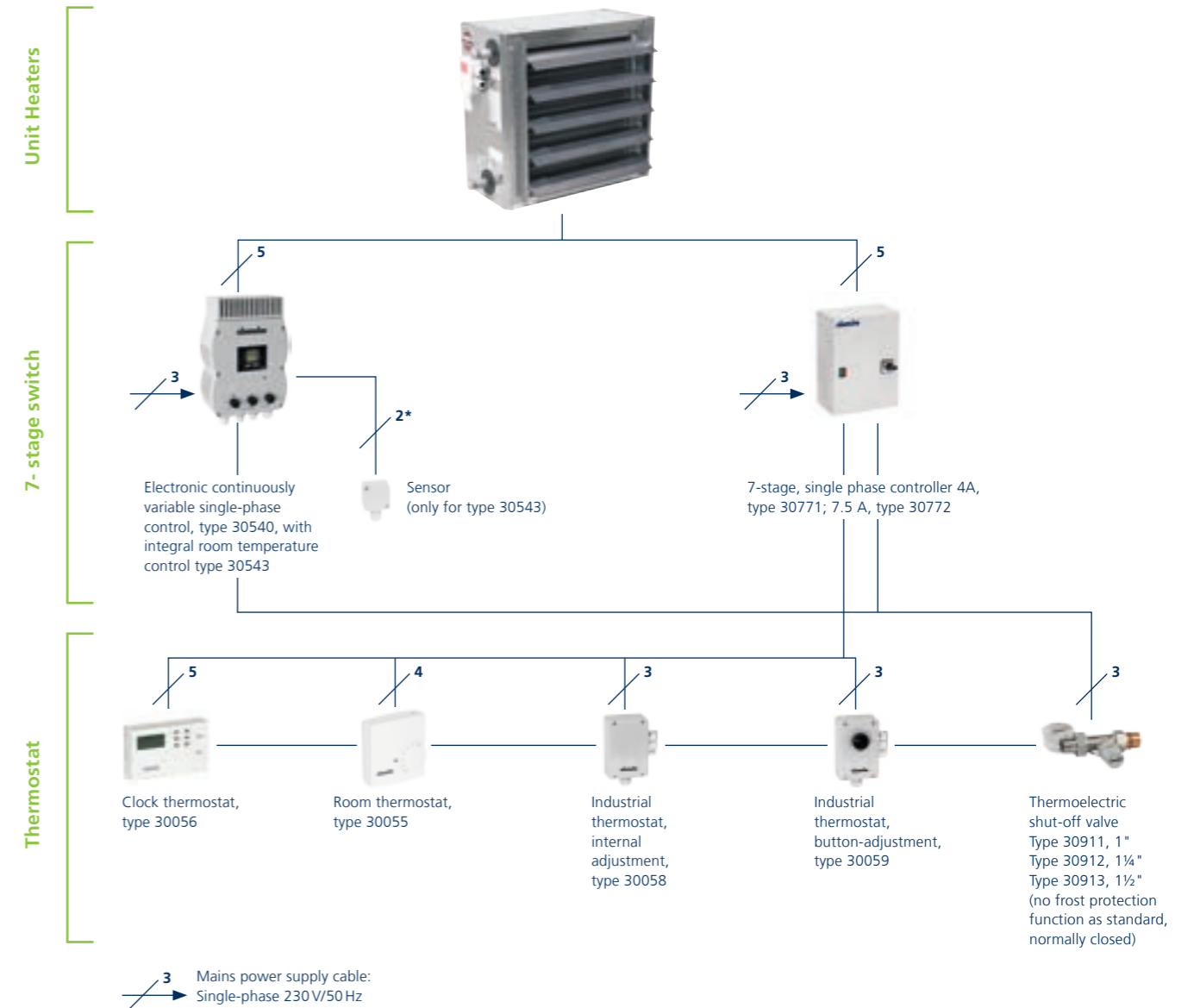


*¹) Shielded cable (e.g. J-Y(ST)Y, 0.8 mm), max. 100 m, lay separately from high-voltage cables!
The number of connecting wires required including fuses is given on the individual control units.
Electrical supply: Observe the technical connection requirements laid down by utility companies!

1-stage, Single-phase

Maximum connectable unit heaters per switch

Unit heater with 1-stage single-phase motor	Switching device		
	Electronic continuously variable single-phase controller, recirculating air type 30540, type 30543	7-stage, single phase control with room thermostat connection	
	[Quantity]	Type 30771 [Quantity]	Type 30772 [Quantity]
54	5	3	9
55	3	2	5
56	2	2	4
57	1	1	2



*¹) Shielded cable (e.g. J-Y(ST)Y, 0.8 mm), max. 100 m, lay separately from high-voltage cables!
The number of connecting wires required including fuses is given on the individual control units.
Electrical supply: Observe the technical connection requirements laid down by utility companies!

05 ▶ Ordering Information

TIP

Series	Motor	Heat output ¹⁾ [kW]	Air volume [m ³ /h]	Art. no.	Stock product ²⁾
Copper/aluminium heat exchanger					
5420	2-stage, three-phase motor	11.1 – 12.5	1870 – 2360	157000542036	•
	Single-phase motor	12.5	2360	157000542031	
5430	2-stage, three-phase motor	13.8 – 15.9	1670 – 2140	157000543036	•
	Single-phase motor	15.9	2140	157000543031	
5440	2-stage, three-phase motor	15.4 – 18.0	1480 – 1890	157000544036	•
	Single-phase motor	18.0	1890	157000544031	
5520	2-stage, three-phase motor	17.7 – 19.8	3330 – 4140	157000552036	•
	Single-phase motor	19.8	4140	157000552031	
5530	2-stage, three-phase motor	24.2 – 27.4	3060 – 3810	157000553036	•
	Single-phase motor	27.4	3810	157000553031	
5540	2-stage, three-phase motor	26.6 – 30.9	2700 – 3430	157000554036	•
	Single-phase motor	30.9	3430	157000554031	
5620	2-stage, three-phase motor	27.3 – 30.9	4490 – 5680	157000562036	•
	Single-phase motor	30.9	5680	157000562031	
5630	2-stage, three-phase motor	36.2 – 41.9	4120 – 5260	157000563036	•
	Single-phase motor	41.9	5260	157000563031	
5640	2-stage, three-phase motor	40.8 – 47.9	3720 – 4750	157000564036	•
	Single-phase motor	47.9	4750	157000564031	
5720	2-stage, three-phase motor	43.4 – 47.7	7320 – 8770	157000572036	•
	Single-phase motor	47.7	8770	157000572031	
5730	2-stage, three-phase motor	56.4 – 64.5	6730 – 8500	157000573036	•
	Single-phase motor	64.5	8500	157000573031	
5740	2-Stufen-Drehstrommotor	65.5 – 77.2	6150 – 7960	157000574036	•
	Wechselstrommotor	77.2	7960	157000574031	

¹⁾at LPHW 75/65 °C, t_{L1} = 20 °C



²⁾available in approximately 3 working days ex works

Accessories

Figure	Article	Properties	Suitable for	Art. no.
Compact controls for speed control with integral room temperature control				
	Electronic continuously variable single-phase control	Master unit with integral temperature control and room temperature sensor in a separate IP65 housing with integral digital timer with day, night, week programme, slave units either via type 30540 or continuously via power module (type suffix V), type 30543	Motor number 31	196000030543
		Slave unit without room temperature control and timer, for use with master unit type or for continuous 0-100% control via an external signal, configurable to 0-10 VDC, 0-5 VDC or potentiometer 0-100 Kohms, type 30540		196000030540
	Electronic 2-stage, 3-phase controller 4 KW / 10 A	with integral digital timer with day, night, week programme, room temperature control and room temperature sensor in a separate housing with IP54 degree of protection, type 30277	Motor number 36	196000030277
		with room temperature sensor in a separate housing with IP54 degree of protection, day/night switch-over via external potential-free contact (e.g. timer), type 30177		196000030177
Stage-switch for speed control				
	7-stage, single-phase controller		Motor number 31	196000030772
	2-stage, 3-phase switch	4 KW/10 A, Type 30049	Motor number 36	196000030049
	5-stage 3-phase controller	2 A, Type 30751	Motor number 36	196000030751
		4 A, Type 30752		196000030752
		8 A, Type 30754		196000030754

more »

Accessories

Figure	Article	Properties	Suitable for	Art. no.
Thermostats				
	Clock thermostat	Type 30056 Attractive combined clock/room thermostat with electronic 2-point control and digital weekly timer, 4 hours of power reserve, party circuit, switching status display and Auto / Day / Night / Off operating mode switch Housing: Plastic, white, surface-mounted Protection class: IP20 Temperature setting range: 5–40°C, night setback settable Switching differential: : 2–10K, 0.1–3 K settable Switching capacity: 230 V~, 10 (4) A Dimensions (W x H x D): 132 x 82 x 32 mm	all series	
	Industrial thermostat with setpoint adjustment by tool	Housing made of impact-resistant plastic, setpoint adjustment only possible after removing the housing cover. Protection class: IP54 Temperature setting range: 0–40 degrees °C Switching capacity: 250 V AC, 50 Hz Heating: 16 (4) A Cooling: 8 (4) A	all series	196000030058
	Industrial thermostat with dial-operated setpoint adjustment	Housing made of impact-resistant plastic, dial-operated setpoint adjustment. Protection class: IP54 Temperature setting range: 0–40 degrees °C Switching capacity: 250 V AC, 50 Hz Heating: 16 (4) A Cooling: 8 (4) A	all series	196000030059
	Room thermostat with thermal feedback	in flat housing, white, with thermal setback Temperature setting range: 5–30 Grad °C, Range restriction possible. Protection class: IP30 Switching capacity: 250 V AC, 50 Hz, 10 (4) A Dimensions (W x H x D): 74x74x27 mm	all series	196000030055
Repair switch				
	Repair switch	Type 30120 for two-stage motors, motor number 36, supplied loose; enables individual heaters in a switching group to be decommissioning by voltage disconnection. The thermal contacts are bridged in advance, and subsequently opened on the motor side so that the other unit heaters in the group can continue to operate without interruption. Degree of protection IP55; max. switching current 25 A	Motor number 36	196000030120

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Accessories

Figure	Article	Properties	Suitable for	Art. no.
Valves/Return shut-off valves				
	Shut-off valve 230 VAC	Connection 1", Typ 30911	series 54, 55	196000030911
		Connection 1¼", Typ 30913	series 56	196000030913
		Connection 1½", Typ 30912	series 57	196000030912
Louvers				
	Louvre, two-row	type 34002	series 54	198000034002
		type 35002	series 55	198000035002
		type 36002	series 56	198000036002
		type 37002	series 57	198000037002
	4-way diffuser	type 34004	series 54	198000034004
		type 35004	series 55	198000035004
		type 36004	series 56	198000036004
		type 37004	series 57	198000037004
Brackets				
	Universal 4-point brackets	1 complete set, type 30042	all series	198000030042
	Wall brackets	1 set, length 585 mm, type 34044	series 54	198000034044
		1 set, length 585 mm, type 35044	series 55	198000035044
		1 set, length 585 mm, type 36044	series 56	198000036044
		1 set, length 585 mm, type 37044	series 57	198000037044

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