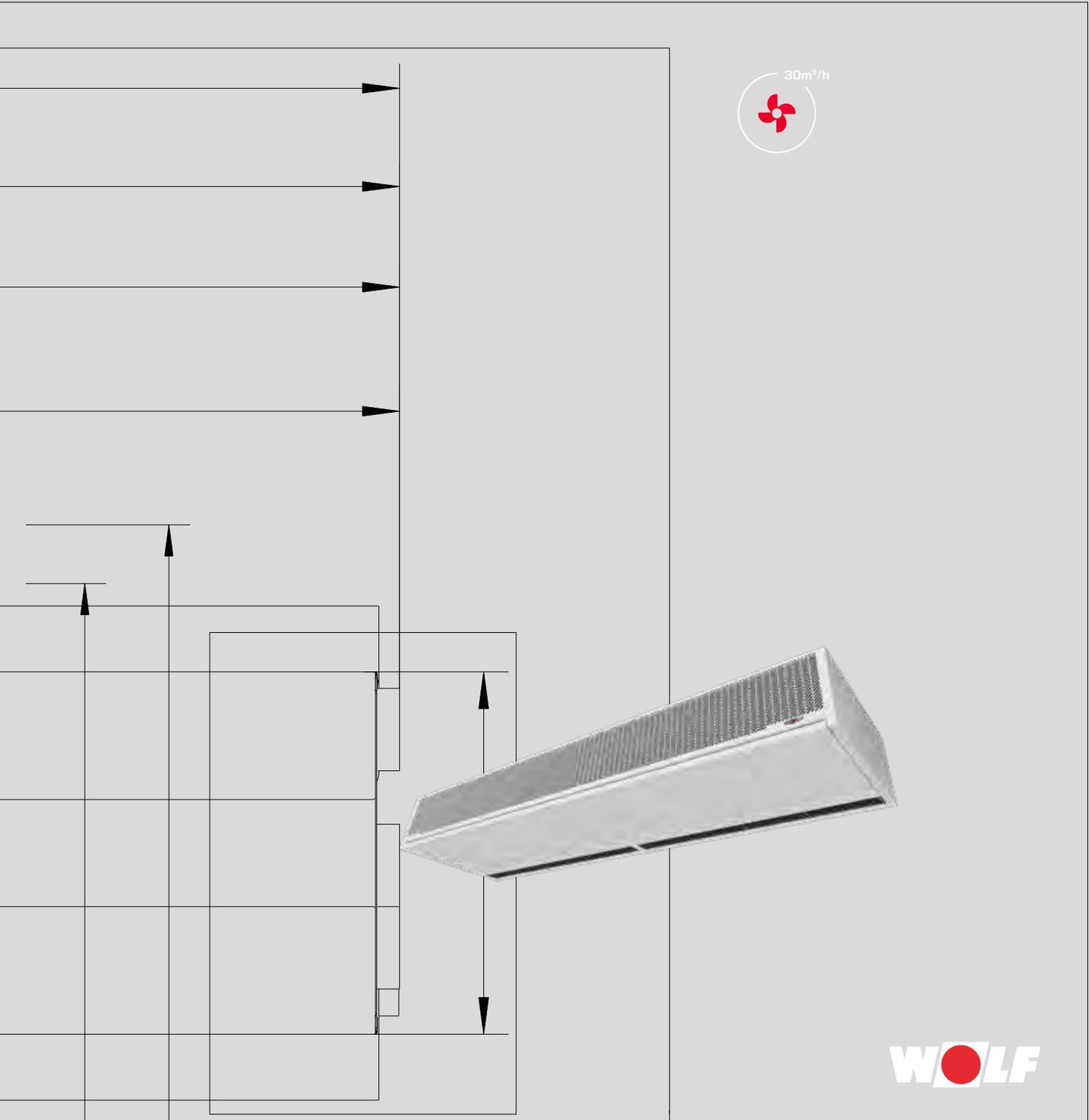


TECHNICAL DOCUMENTATION

WOLF WARM AIR CURTAIN

TL-3

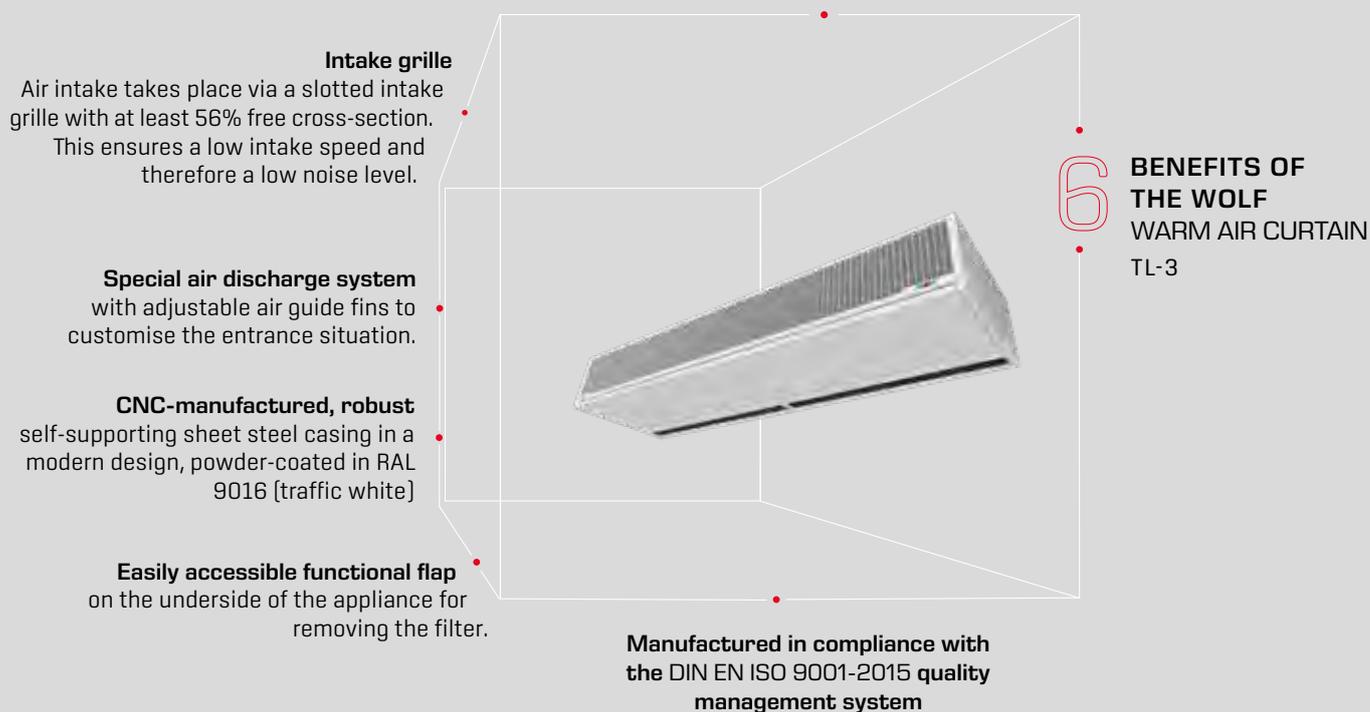


WARM AIR CURTAIN TL-3

Fans

AC: High-speed AC fans are particularly suitable for doors and gates that open and close quickly or are only open for a short time.

EC: Energy-saving and infinitely variable EC fans that are particularly suitable for doors and gates open for prolonged periods.



HOUSING

Self-supporting casing made of coated sheet steel available in individual RAL colours (standard = RAL 9016).

FILTERS

The G2 filter cassette with aluminium frame is inserted into the appliance for optimal efficiency and to protect the internal components. Filter maintenance is carried out via an aluminium filter panel that can be opened without tools.

HEAT EXCHANGER

The Cu/Al heat exchanger integrated into the appliance for pumped warm water is fitted with steel connections that are secured against twisting.

ALTERNATIVE:

Electric heat exchanger
Electric heating coil, base frame made from zinc-plated sheet steel with resistance heater elements, corrosion-resistant with spiral-shaped fins and thermal overheating protection, available on request.

FANS

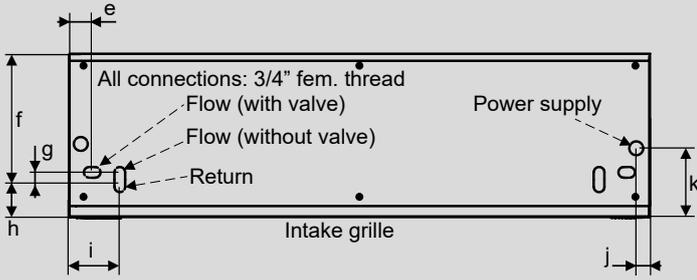
Vibration-free, double inlet radial fans with direct drive 230 V/50 Hz AC motors, ERP-compliant. Full motor protection via integrated thermal contacts.

Alternative:
Double inlet EC fans with infinitely variable fan speed control via a 0-10 V signal. Full motor protection via integrated thermal contacts.

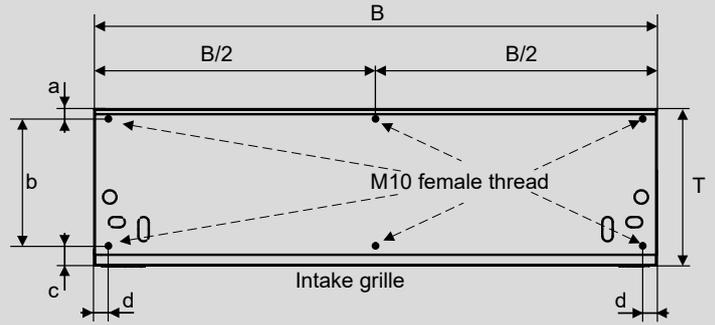
AIR DISCHARGE APERTURE

Special air discharge system with adjustable air guide fins that are secured against twisting.

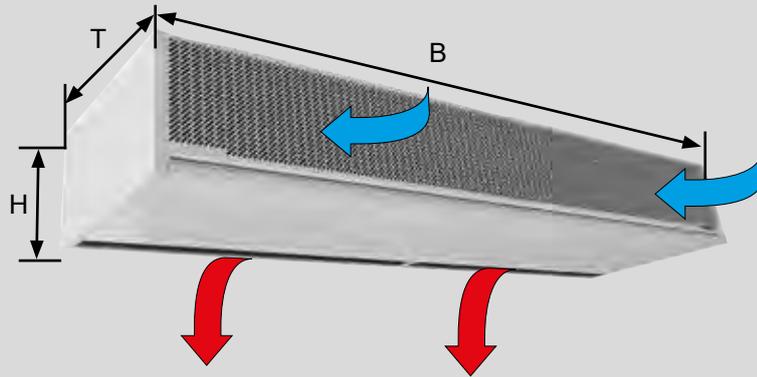
TOP VIEW PIPE CONNECTION



TOP VIEW CEILING MOUNTING



UNIT DIMENSIONS



TL-3 SIZES

A10, A20, A30

B	1000	1500	2000	2500	3000
T	560	560	560	560	560
H	290	290	290	290	290
a	35	35	35	35	35
b	455	455	455	455	455
c	70	70	70	70	70
d	50	50	50	50	50
B/2	-	-	-	1250	1500
e	80	80	80	80	80
f	455	455	455	455	455
g	50	50	50	50	50
h	105	105	105	105	105
i	175	175	175	175	175
j	50	50	50	50	50
k	245	245	245	245	245

TYPE		A10					A20				
		1000	1500	2000	2500	3000	1000	1500	2000	2500	3000
Installed width	mm										
Part no. with 230V AC motor		2140370	2140371	2140372	2140373	2140374	2140375	2140376	2140377	2140378	2140379
Part no. with 230V EC motor		2140385	2140386	2140387	2140388	2140389	2140390	2140391	2140392	2140393	2140394
CONTROL VOLTAGE 2V - STAGE 1											
Air volume	m ³ /h	850	900	1300	1800	2100	850	1350	1800	2200	2700
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	3.5	3.6	5.5	7.4	8.7	3.5	5.6	7.5	9.3	11.1
Medium	m ³ /h	0.2	0.2	0.2	0.3	0.4	0.2	0.2	0.3	0.4	0.5
Medium pressure loss	kPa	0.3	0.1	0.2	0.4	0.6	0.3	0.3	0.4	0.5	0.9
Sound pressure level (3 m distance)	dB[A]	42.9	41.9	43.9	44.9	45.9	42.9	43.9	44.9	45.9	47.9
CONTROL VOLTAGE 4V - STAGE 2											
Air volume	m ³ /h	1000	1050	1550	2100	2450	1000	1550	2100	2600	3150
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	4.2	6.2	6.4	9.0	10.4	4.2	6.5	8.8	10.9	13.3
Medium	m ³ /h	0.2	0.3	0.3	0.4	0.5	0.2	0.3	0.4	0.5	0.6
Medium pressure loss	kPa	0.3	0.3	0.3	0.5	0.8	0.3	0.4	0.5	0.7	1.2
Sound pressure level (3 m distance)	dB[A]	46.2	45.2	47.2	48.2	49.2	46.2	47.2	44.9	49.2	51.2
CONTROL VOLTAGE 6V - STAGE 3											
Air volume	m ³ /h	1250	1300	1850	2550	3000	1250	1900	2550	3150	3800
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	5.3	5.5	7.6	10.8	12.9	5.3	7.8	10.7	13.0	15.8
Medium	m ³ /h	0.2	0.2	0.3	0.5	0.6	0.2	0.3	0.5	0.6	0.7
Medium pressure loss	kPa	0.5	0.3	0.4	0.7	1.1	0.5	0.5	0.8	1.0	1.6
Sound pressure level (3 m distance)	dB[A]	50.4	49.4	51.4	52.4	53.4	50.4	51.4	52.4	53.4	55.4
CONTROL VOLTAGE 8V - STAGE 4											
Air volume	m ³ /h	1450	1550	2200	3000	3550	1450	2250	3000	3700	4500
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	6.1	6.5	9.0	12.6	15.1	6.1	9.3	12.4	15.5	18.5
Medium	m ³ /h	0.3	0.3	0.4	0.5	0.7	0.3	0.4	0.5	0.7	0.8
Medium pressure loss	kPa	0.7	0.4	0.6	0.9	1.5	0.7	0.7	1.0	1.3	2.1
Sound pressure level (3 m distance)	dB[A]	54.0	53.0	55.0	56.0	57.0	54.0	55.0	56.0	57.0	59.0
CONTROL VOLTAGE 10V - STAGE 5											
Air volume	m ³ /h	1700	1800	2550	3450	4100	1700	2600	3450	4300	5200
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	7.4	7.5	10.7	13.8	17.4	7.4	11.0	14.5	17.8	21.7
Medium	m ³ /h	0.3	0.3	0.5	0.6	0.8	0.3	0.5	0.6	0.8	0.9
Medium pressure loss	kPa	0.9	0.5	0.8	1.1	1.9	0.9	0.9	1.3	1.6	2.8
Sound pressure level (3 m distance)	dB[A]	57.0	56.0	58.0	59.0	60.0	57.0	58.0	59.0	60.0	62.0

* Specified heating outputs at 20 °C intake temperature

TYPE		A30				
		1000	1500	2000	2500	3000
Installed width	mm					
Part no. with 230V AC motor		2140380	2140381	2140382	2140383	2140384
Part no. with 230V EC motor		2140395	2140396	2140397	2140398	2140399
CONTROL VOLTAGE 2V - STAGE 1						
Air volume	m ³ /h	1300	1750	2550	3100	3600
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	5.4	7.1	10.7	12.9	15.2
Medium	m ³ /h	0.2	0.3	0.5	0.6	0.7
Medium pressure loss	kPa	0.5	0.4	0.8	0.9	1.5
Sound pressure level (3 m distance)	dB(A)	43.9	44.9	45.9	46.9	48.9
CONTROL VOLTAGE 4V - STAGE 2						
Air volume	m ³ /h	1550	2050	3000	3600	4200
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	6.4	8.5	12.4	15.2	17.7
Medium	m ³ /h	0.3	0.4	0.5	0.7	0.8
Medium pressure loss	kPa	0.7	0.6	1.0	1.3	2.0
Sound pressure level (3 m distance)	dB(A)	47.2	48.2	49.2	50.2	52.2
CONTROL VOLTAGE 6V - STAGE 3						
Air volume	m ³ /h	1850	2500	3650	4350	5100
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	7.8	10.4	15.4	18.4	21.4
Medium	m ³ /h	0.3	0.5	0.7	0.8	0.9
Medium pressure loss	kPa	1.0	0.8	1.5	1.8	2.8
Sound pressure level (3 m distance)	dB(A)	51.4	52.4	53.4	54.4	56.4
CONTROL VOLTAGE 8V - STAGE 4						
Air volume	m ³ /h	2200	2950	4300	5150	6000
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	8.7	12.4	17.8	21.2	24.7
Medium	m ³ /h	0.4	0.5	0.8	0.9	1.1
Medium pressure loss	kPa	1.2	1.1	1.9	2.2	3.6
Sound pressure level (3 m distance)	dB(A)	55.0	56.0	57.0	58.0	60.0
CONTROL VOLTAGE 10V - STAGE 5						
Air volume	m ³ /h	2550	3400	4950	5950	6950
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	11.6	14.2	20.9	24.8	28.8
Medium	m ³ /h	0.5	0.6	0.9	1.1	1.3
Medium pressure loss	kPa	2.0	1.4	2.5	3.0	4.7
Sound pressure level (3 m distance)	dB(A)	58.0	59.0	60.0	61.0	63.0

* Specified heating outputs at 20 °C intake temperature

TYPE		A10					A20				
		1000	1500	2000	2500	3000	1000	1500	2000	2500	3000
Installed width	mm										
Part no. with 230V AC motor		2140370	2140371	2140372	2140373	2140374	2140375	2140376	2140377	2140378	2140379
Part no. with 230V EC motor		2140385	2140386	2140387	2140388	2140389	2140390	2140391	2140392	2140393	2140394
CONTROL VOLTAGE 2V - STAGE 1											
Air volume	m ³ /h	850	900	1300	1800	2100	850	1350	1800	2200	2700
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	3.5	3.8	5.4	7.5	8.5	3.5	5.6	7.4	9.0	11.3
Medium	m ³ /h	0.3	0.3	0.5	0.7	0.7	0.3	0.5	0.6	0.8	1.0
Medium pressure loss	kPa	0.9	0.5	0.8	1.2	1.9	0.9	1.0	1.4	1.7	3.1
Sound pressure level (3 m distance)	dB[A]	42.9	41.9	43.9	44.9	45.9	42.9	43.9	44.9	45.9	47.9
CONTROL VOLTAGE 4V - STAGE 2											
Air volume	m ³ /h	1000	1050	1550	2100	2450	1000	1550	2100	2600	3150
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	4.2	4.4	6.4	8.7	10.1	4.2	6.6	8.8	10.5	13.1
Medium	m ³ /h	0.4	0.4	0.6	0.8	0.9	0.4	0.6	0.8	0.9	1.1
Medium pressure loss	kPa	1.2	0.6	1.1	1.6	2.6	1.2	1.3	1.9	2.3	4.0
Sound pressure level (3 m distance)	dB[A]	46.2	45.2	47.2	48.2	49.2	46.2	47.2	44.9	49.2	51.2
CONTROL VOLTAGE 6V - STAGE 3											
Air volume	m ³ /h	1250	1300	1850	2550	3000	1250	1900	2550	3150	3800
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	5.2	5.4	7.5	10.4	12.7	5.2	8.0	10.7	13.2	15.9
Medium	m ³ /h	0.5	0.5	0.7	0.9	1.1	0.5	0.7	0.9	1.2	1.4
Medium pressure loss	kPa	1.7	0.9	1.4	2.2	3.8	1.7	1.8	2.6	3.4	5.6
Sound pressure level (3 m distance)	dB[A]	50.4	49.4	51.4	52.4	53.4	50.4	51.4	52.4	53.4	55.4
CONTROL VOLTAGE 8V - STAGE 4											
Air volume	m ³ /h	1450	1550	2200	3000	3550	1450	2250	3000	3700	4500
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	6.0	6.4	9.1	12.5	14.2	6.0	9.5	12.6	15.1	18.4
Medium	m ³ /h	0.5	0.6	0.8	1.1	1.2	0.5	0.8	1.1	1.3	1.6
Medium pressure loss	kPa	2.2	1.2	2.0	3.0	4.7	2.2	2.4	3.5	4.3	7.3
Sound pressure level (3 m distance)	dB[A]	54.0	53.0	55.0	56.0	57.0	54.0	55.0	56.0	57.0	59.0
CONTROL VOLTAGE 10V - STAGE 5											
Air volume	m ³ /h	1700	1800	2550	3450	4100	1700	2600	3450	4300	5200
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	7.2	7.5	10.7	14.5	16.9	7.2	10.9	14.3	17.8	21.5
Medium	m ³ /h	0.6	0.6	0.9	1.3	1.5	0.6	0.9	1.2	1.5	1.9
Medium pressure loss	kPa	3.0	1.6	2.6	4.0	6.3	3.0	3.1	4.4	5.7	9.6
Sound pressure level (3 m distance)	dB[A]	57.0	56.0	58.0	59.0	60.0	57.0	58.0	59.0	60.0	62.0

* Specified heating outputs at 20 °C intake temperature

TYPE		A30				
		1000	1500	2000	2500	3000
Installed width	mm					
Part no. with 230V AC motor		2140380	2140381	2140382	2140383	2140384
Part no. with 230V EC motor		2140395	2140396	2140397	2140398	2140399
CONTROL VOLTAGE 2V - STAGE 1						
Air volume	m ³ /h	1300	1750	2550	3100	3600
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	5.3	7.3	10.7	12.7	15.3
Medium	m ³ /h	0.5	0.6	0.9	1.1	1.3
Medium pressure loss	kPa	1.8	1.6	2.6	3.2	5.3
Sound pressure level (3 m distance)	dB(A)	43.9	44.9	45.9	46.9	48.9
CONTROL VOLTAGE 4V - STAGE 2						
Air volume	m ³ /h	1550	2050	3000	3600	4200
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	6.5	8.4	12.6	14.9	17.6
Medium	m ³ /h	0.6	0.7	1.1	1.3	1.5
Medium pressure loss	kPa	2.5	2.0	3.5	4.2	6.8
Sound pressure level (3 m distance)	dB(A)	47.2	48.2	49.2	50.2	52.2
CONTROL VOLTAGE 6V - STAGE 3						
Air volume	m ³ /h	1850	2500	3650	4350	5100
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	7.6	10.6	15.2	17.9	21.2
Medium	m ³ /h	0.7	0.9	1.3	1.6	1.8
Medium pressure loss	kPa	3.3	3.0	5.0	5.8	9.4
Sound pressure level (3 m distance)	dB(A)	51.4	52.4	53.4	54.4	56.4
CONTROL VOLTAGE 8V - STAGE 4						
Air volume	m ³ /h	2200	2950	4300	5150	6000
Air discharge *	°C	31.2	32.0	32.0	32.0	32.0
Heating output (total)	kW	8.5	12.3	17.6	21.2	25.1
Medium	m ³ /h	0.7	1.1	1.5	1.8	2.2
Medium pressure loss	kPa	4.0	3.8	6.4	7.7	12.7
Sound pressure level (3 m distance)	dB(A)	55.0	56.0	57.0	58.0	60.0
CONTROL VOLTAGE 10V - STAGE 5						
Air volume	m ³ /h	2550	3400	4950	5950	6950
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0
Heating output (total)	kW	11.2	14.0	20.9	25.2	28.4
Medium	m ³ /h	1.0	1.2	1.8	2.2	2.5
Medium pressure loss	kPa	6.6	4.8	8.7	10.5	15.7
Sound pressure level (3 m distance)	dB(A)	58.0	59.0	60.0	61.0	63.0

* Specified heating outputs at 20 °C intake temperature

TYPE		A10					A20				
		1000	1500	2000	2500	3000	1000	1500	2000	2500	3000
Installed width	mm										
Part no. with 230V AC motor		2140370	2140371	2140372	2140373	2140374	2140375	2140376	2140377	2140378	2140379
Part no. with 230V EC motor		2140385	2140386	2140387	2140388	2140389	2140390	2140391	2140392	2140393	2140394
CONTROL VOLTAGE 2V - STAGE 1											
Air volume	m ³ /h	850	900	1300	1800	2100	850	1350	1800	2200	2700
Air discharge *	°C	30.5	29.6	32.0	32.0	32.0	30.5	32.0	32.0	32.0	32.0
Heating output (total)	kW	3.1	3.0	5.4	7.5	8.7	3.1	5.6	7.4	9.0	11.4
Medium	m ³ /h	0.2	0.2	0.3	0.4	0.5	0.2	0.3	0.4	0.5	0.7
Medium pressure loss	kPa	0.3	0.2	0.4	0.6	1.0	0.3	0.5	0.7	0.9	1.6
Sound pressure level (3 m distance)	dB[A]	42.9	41.9	43.9	44.9	45.9	42.9	43.9	44.9	45.9	47.9
CONTROL VOLTAGE 4V - STAGE 2											
Air volume	m ³ /h	1000	1050	1550	2100	2450	1000	1550	2100	2600	3150
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0	32.0	31.6	32.0	32.0	32.0
Heating output (total)	kW	4.3	4.5	6.4	8.7	10.3	4.3	6.2	8.9	10.8	13.1
Medium	m ³ /h	0.3	0.3	0.4	0.5	0.6	0.3	0.4	0.5	0.6	0.8
Medium pressure loss	kPa	0.6	0.3	0.5	0.8	1.3	0.6	0.6	1.0	1.2	2.0
Sound pressure level (3 m distance)	dB[A]	46.2	45.2	47.2	48.2	49.2	46.2	47.2	44.9	49.2	51.2
CONTROL VOLTAGE 6V - STAGE 3											
Air volume	m ³ /h	1250	1300	1850	2550	3000	1250	1900	2550	3150	3800
Air discharge *	°C	32.0	32.0	32.0	32.0	32.0	32.0	31.0	32.0	32.0	32.0
Heating output (total)	kW	5.1	5.4	7.9	10.7	12.6	5.1	7.2	10.7	13.4	15.8
Medium	m ³ /h	0.3	0.3	0.5	0.6	0.7	0.3	0.4	0.6	0.8	0.9
Medium pressure loss	kPa	0.8	0.5	0.8	1.1	1.9	0.8	0.7	1.3	1.7	2.8
Sound pressure level (3 m distance)	dB[A]	50.4	49.4	51.4	52.4	53.4	50.4	51.4	52.4	53.4	55.4
CONTROL VOLTAGE 8V - STAGE 4											
Air volume	m ³ /h	1450	1550	2200	3000	3550	1450	2250	3000	3700	4500
Air discharge *	°C	31.5	32.0	32.0	32.0	32.0	31.5	30.5	31.6	32.0	32.0
Heating output (total)	kW	5.7	6.2	9.2	12.5	14.7	5.7	8.1	12.0	15.5	19.2
Medium	m ³ /h	0.3	0.4	0.5	0.7	0.9	0.3	0.5	0.7	0.9	1.1
Medium pressure loss	kPa	1.0	0.6	1.0	1.5	2.4	1.0	0.9	1.6	2.2	3.9
Sound pressure level (3 m distance)	dB[A]	54.0	53.0	55.0	56.0	57.0	54.0	55.0	56.0	57.0	59.0
CONTROL VOLTAGE 10V - STAGE 5											
Air volume	m ³ /h	1700	1800	2550	3450	4100	1700	2600	3450	4300	5200
Air discharge *	°C	31.0	31.1	32.0	32.0	32.0	31.0	32.0	31.0	31.6	32.0
Heating output (total)	kW	6.4	6.9	10.7	14.3	17.3	6.4	10.8	13.1	17.2	21.1
Medium	m ³ /h	w	0.4	0.6	0.8	1.0	0.4	0.6	0.8	1.0	1.2
Medium pressure loss	kPa	1.2	0.7	1.3	1.9	3.3	1.2	1.5	1.9	2.7	4.6
Sound pressure level (3 m distance)	dB[A]	57.0	56.0	58.0	59.0	60.0	57.0	58.0	59.0	60.0	62.0

* Specified heating outputs at 20 °C intake temperature

TYPE		A30				
		1000	1500	2000	2500	3000
Installed width	mm					
Part no. with 230V AC motor		2140380	2140381	2140382	2140383	2140384
Part no. with 230V EC motor		2140395	2140396	2140397	2140398	2140399
CONTROL VOLTAGE 2V - STAGE 1						
Air volume	m ³ /h	1300	1750	2550	3100	3600
Air discharge *	°C	32.0	31.2	32.0	32.0	32.0
Heating output (total)	kW	5.3	6.8	10.7	12.8	14.8
Medium	m ³ /h	0.3	0.4	0.6	0.7	0.9
Medium pressure loss	kPa	0.9	0.7	1.3	1.6	2.5
Sound pressure level (3 m distance)	dB(A)	43.9	44.9	45.9	46.9	48.9
CONTROL VOLTAGE 4V - STAGE 2						
Air volume	m ³ /h	1550	2050	3000	3600	4200
Air discharge *	°C	31.3	31.0	31.6	32.0	32.0
Heating output (total)	kW	6.0	7.6	12.0	14.7	17.6
Medium	m ³ /h	0.3	0.4	0.7	0.8	1.0
Medium pressure loss	kPa	1.1	0.8	1.6	2.0	3.4
Sound pressure level (3 m distance)	dB(A)	47.2	48.2	49.2	50.2	52.2
CONTROL VOLTAGE 6V - STAGE 3						
Air volume	m ³ /h	1850	2500	3650	4350	5100
Air discharge *	°C	30.7	32.0	31.0	31.6	32.0
Heating output (total)	kW	6.8	10.6	13.6	17.3	21.7
Medium	m ³ /h	0.4	0.6	0.8	1.0	1.3
Medium pressure loss	kPa	1.4	1.5	2.0	2.7	4.8
Sound pressure level (3 m distance)	dB(A)	51.4	52.4	53.4	54.4	56.4
CONTROL VOLTAGE 8V - STAGE 4						
Air volume	m ³ /h	2200	2950	4300	5150	6000
Air discharge *	°C	30.0	31.7	32.0	31.0	31.7
Heating output (total)	kW	7.6	11.8	18.3	19.4	24.1
Medium	m ³ /h	0.4	0.7	1.1	1.1	1.4
Medium pressure loss	kPa	1.7	1.8	3.4	3.3	5.8
Sound pressure level (3 m distance)	dB(A)	55.0	56.0	57.0	58.0	60.0
CONTROL VOLTAGE 10V - STAGE 5						
Air volume	m ³ /h	2550	3400	4950	5950	6950
Air discharge *	°C	29.5	31.1	32.0	32.0	31.1
Heating output (total)	kW	8.4	13.0	20.1	25.7	26.5
Medium	m ³ /h	0.5	0.8	1.2	1.5	1.5
Medium pressure loss	kPa	2.0	2.1	4.0	5.4	6.9
Sound pressure level (3 m distance)	dB(A)	58.0	59.0	60.0	61.0	63.0

* Specified heating outputs at 20 °C intake temperature

TYPE		A10					A20				
		1000	1500	2000	2500	3000	1000	1500	2000	2500	3000
Installed width	mm										
Part no. with 230V AC motor		2140370	2140371	2140372	2140373	2140374	2140375	2140376	2140377	2140378	2140379
Part no. with 230V EC motor		2140385	2140386	2140387	2140388	2140389	2140390	2140391	2140392	2140393	2140394
CONTROL VOLTAGE 2V - STAGE 1											
Air volume	m ³ /h	850	900	1300	1800	2100	850	1350	1800	2200	2700
Air discharge *	°C	26.0	27.6	27.3	31.5	31.0	26.0	25.8	30.0	31.3	32.0
Heating output (total)	kW	1.8	2.4	3.3	7.2	8.0	1.8	2.7	6.3	8.5	11.6
Medium	m ³ /h	0.1	0.1	0.2	0.4	0.5	0.1	0.2	0.4	0.5	0.7
Medium pressure loss	kPa	0.1	0.1	0.2	0.6	0.9	0.1	0.1	0.5	0.8	1.6
Sound pressure level (3 m distance)	dB[A]	42.9	41.9	43.9	44.9	45.9	42.9	43.9	44.9	45.9	47.9
CONTROL VOLTAGE 4V - STAGE 2											
Air volume	m ³ /h	1000	1050	1550	2100	2450	1000	1550	2100	2600	3150
Air discharge *	°C	25.5	26.9	30.0	31.4	32.0	25.5	25.3	30.0	31.0	32.0
Heating output (total)	kW	1.9	2.5	5.3	8.2	10.7	1.9	2.8	7.2	9.8	13.0
Medium	m ³ /h	0.1	0.1	0.3	0.5	0.6	0.1	0.2	0.4	0.3	0.8
Medium pressure loss	kPa	0.2	0.1	0.4	0.7	1.4	0.2	0.2	0.7	1.0	2.0
Sound pressure level (3 m distance)	dB[A]	46.2	45.2	47.2	48.2	49.2	46.2	47.2	44.9	49.2	51.2
CONTROL VOLTAGE 6V - STAGE 3											
Air volume	m ³ /h	1250	1300	1850	2550	3000	1250	1900	2550	3150	3800
Air discharge *	°C	24.7	26.0	30.0	31.0	32.0	24.7	27.6	29.6	30.5	31.5
Heating output (total)	kW	2.0	2.7	6.4	9.6	12.6	2.0	5.0	8.4	11.3	15.0
Medium	m ³ /h	0.1	0.2	0.4	0.6	0.7	0.1	0.3	0.5	0.7	0.9
Medium pressure loss	kPa	0.2	0.1	0.6	1.0	1.9	0.2	0.4	0.9	1.3	2.6
Sound pressure level (3 m distance)	dB[A]	50.4	49.4	51.4	52.4	53.4	50.4	51.4	52.4	53.4	55.4
CONTROL VOLTAGE 8V - STAGE 4											
Air volume	m ³ /h	1450	1550	2200	3000	3550	1450	2250	3000	3700	4500
Air discharge *	°C	24.2	25.3	29.9	30.6	32.0	24.2	27.6	29.2	30.0	31.0
Heating output (total)	kW	2.1	2.8	7.5	10.9	14.2	2.1	5.9	9.5	12.8	16.9
Medium	m ³ /h	0.1	0.2	0.4	0.6	0.8	0.1	0.3	0.6	0.7	1.0
Medium pressure loss	kPa	0.2	0.2	0.7	1.2	2.4	0.2	0.5	1.1	1.6	3.2
Sound pressure level (3 m distance)	dB[A]	54.0	53.0	55.0	56.0	57.0	54.0	55.0	56.0	57.0	59.0
CONTROL VOLTAGE 10V - STAGE 5											
Air volume	m ³ /h	1700	1800	2550	3450	4100	1700	2600	3450	4300	5200
Air discharge *	°C	25.8	27.5	29.6	30.2	31.2	25.8	27.4	28.9	29.6	30.5
Heating output (total)	kW	3.4	4.6	8.4	12.1	15.8	3.4	6.7	10.5	14.2	18.7
Medium	m ³ /h	0.2	0.3	0.5	0.7	0.9	0.2	0.4	0.6	0.8	1.1
Medium pressure loss	kPa	0.4	0.4	0.9	1.5	2.8	0.4	0.7	1.3	1.9	3.8
Sound pressure level (3 m distance)	dB[A]	57.0	56.0	58.0	59.0	60.0	57.0	58.0	59.0	60.0	62.0

* Specified heating outputs at 20 °C intake temperature

TYPE		A30				
		1000	1500	2000	2500	3000
Installed width	mm					
Part no. with 230V AC motor		2140380	2140381	2140382	2140383	2140384
Part no. with 230V EC motor		2140395	2140396	2140397	2140398	2140399
CONTROL VOLTAGE 2V - STAGE 1						
Air volume	m ³ /h	1300	1750	2550	3100	3600
Air discharge *	°C	24.5	27.3	29.6	30.5	31.6
Heating output (total)	kW	2.1	4.4	8.4	11.2	14.4
Medium	m ³ /h	0.1	0.3	0.5	0.6	0.8
Medium pressure loss	kPa	0.2	0.3	0.9	1.3	2.4
Sound pressure level (3 m distance)	dB(A)	43.9	44.9	45.9	46.9	48.9
CONTROL VOLTAGE 4V - STAGE 2						
Air volume	m ³ /h	1550	2050	3000	3600	4200
Air discharge *	°C	24.0	27.6	29.2	30.1	31.1
Heating output (total)	kW	2.2	5.4	9.5	12.5	16.1
Medium	m ³ /h	0.1	0.3	0.6	0.7	0.9
Medium pressure loss	kPa	0.2	0.5	1.1	1.5	2.9
Sound pressure level (3 m distance)	dB(A)	47.2	48.2	49.2	50.2	52.2
CONTROL VOLTAGE 6V - STAGE 3						
Air volume	m ³ /h	1850	2500	3650	4350	5100
Air discharge *	°C	25.9	27.5	28.7	29.6	30.5
Heating output (total)	kW	3.7	6.4	11.0	14.3	18.4
Medium	m ³ /h	0.2	0.4	0.6	0.8	1.1
Medium pressure loss	kPa	0.5	0.6	1.4	2.0	3.7
Sound pressure level (3 m distance)	dB(A)	51.4	52.4	53.4	54.4	56.4
CONTROL VOLTAGE 8V - STAGE 4						
Air volume	m ³ /h	2200	2950	4300	5150	6000
Air discharge *	°C	25.8	27.2	28.3	29.0	30.0
Heating output (total)	kW	4.4	7.3	12.3	16.1	20.6
Medium	m ³ /h	0.3	0.4	0.7	0.9	1.2
Medium pressure loss	kPa	0.6	0.8	1.7	2.4	4.5
Sound pressure level (3 m distance)	dB(A)	55.0	56.0	57.0	58.0	60.0
CONTROL VOLTAGE 10V - STAGE 5						
Air volume	m ³ /h	2550	3400	4950	5950	6950
Air discharge *	°C	25.6	27.0	27.9	28.7	29.5
Heating output (total)	kW	4.9	8.1	13.5	17.7	22.7
Medium	m ³ /h	0.3	0.5	0.8	1.0	1.3
Medium pressure loss	kPa	0.8	0.9	2.0	2.8	5.4
Sound pressure level (3 m distance)	dB(A)	58.0	59.0	60.0	61.0	63.0

* Specified heating outputs at 20 °C intake temperature

TYPE		A10					A20				
		1000	1500	2000	2500	3000	1000	1500	2000	2500	3000
Installed width	mm										
Part no. with 230V AC motor		2140370	2140371	2140372	2140373	2140374	2140375	2140376	2140377	2140378	2140379
Part no. with 230V EC motor		2140385	2140386	2140387	2140388	2140389	2140390	2140391	2140392	2140393	2140394
CONTROL VOLTAGE 2V - STAGE 1											
Air volume	m ³ /h	850	900	1300	1800	2100	850	1350	1800	2200	2700
Air discharge *	°C	32	32	32	32	32	27.6	28.9	30.1	30.8	31.4
Heating output (total)	kW	3.51	3.57	5.51	7.35	8.65	2.2	4.1	6.3	8.1	10.6
Medium	m ³ /h	0.2	0.2	0.2	0.3	0.4	0.2	0.4	0.5	0.7	0.9
Medium pressure loss	kPa	0.25	0.13	0.24	0.35	0.56	0.4	0.6	1.1	1.5	2.9
Sound pressure level (3 m distance)	dB[A]	42.9	41.9	43.9	44.9	45.9	42.9	43.9	44.9	45.9	47.9
CONTROL VOLTAGE 4V - STAGE 2											
Air volume	m ³ /h	1000	1050	1550	2100	2450	1000	1550	2100	2600	3150
Air discharge *	°C	27.6	29.0	30.4	30.9	31.7	27.6	28.7	29.8	30.4	31.0
Heating output (total)	kW	2.6	3.2	5.6	7.9	9.8	2.6	4.7	7.1	9.3	11.9
Medium	m ³ /h	0.2	0.3	0.5	0.7	0.9	0.2	0.4	0.6	0.8	1.0
Medium pressure loss	kPa	0.5	0.4	0.9	1.4	2.5	0.5	0.7	1.3	1.9	3.6
Sound pressure level (3 m distance)	dB[A]	46.2	45.2	47.2	48.2	49.2	46.2	47.2	44.9	49.2	51.2
CONTROL VOLTAGE 6V - STAGE 3											
Air volume	m ³ /h	1250	1300	1850	2550	3000	1250	1900	2550	3150	3800
Air discharge *	°C	27.4	29.0	30.0	30.4	31.2	27.4	28.4	29.3	29.9	30.5
Heating output (total)	kW	3.2	4.0	6.4	9.1	11.5	3.2	5.5	8.2	10.7	13.7
Medium	m ³ /h	0.3	0.3	0.6	0.8	1.0	0.3	0.5	0.7	0.9	1.2
Medium pressure loss	kPa	0.8	0.6	1.1	1.8	3.3	0.8	1.0	1.7	2.4	4.6
Sound pressure level (3 m distance)	dB[A]	50.4	49.4	51.4	52.4	53.4	50.4	51.4	52.4	53.4	55.4
CONTROL VOLTAGE 8V - STAGE 4											
Air volume	m ³ /h	1450	1550	2200	3000	3550	1450	2250	3000	3700	4500
Air discharge *	°C	27.1	28.7	29.7	30.0	30.7	27.1	28.0	28.9	29.5	30.0
Heating output (total)	kW	3.6	4.7	7.3	10.3	13.0	3.6	6.2	9.2	12.0	15.5
Medium	m ³ /h	0.3	0.4	0.6	0.9	1.1	0.3	0.5	0.8	1.0	1.3
Medium pressure loss	kPa	0.9	0.7	1.4	2.3	4.2	0.9	1.2	2.1	3.0	5.7
Sound pressure level (3 m distance)	dB[A]	54.0	53.0	55.0	56.0	57.0	54.0	55.0	56.0	57.0	59.0
CONTROL VOLTAGE 10V - STAGE 5											
Air volume	m ³ /h	1700	1800	2550	3450	4100	1700	2600	3450	4300	5200
Air discharge *	°C	26.8	28.5	29.3	29.6	30.3	26.8	27.7	28.6	29.0	29.6
Heating output (total)	kW	4.0	5.2	8.2	11.4	14.5	4.0	6.9	10.2	13.4	17.2
Medium	m ³ /h	0.3	0.5	0.7	1.0	1.3	0.3	0.6	0.9	1.2	1.5
Medium pressure loss	kPa	1.1	0.9	1.7	2.7	5.0	1.1	1.5	2.5	3.6	6.8
Sound pressure level (3 m distance)	dB[A]	57.0	56.0	58.0	59.0	60.0	57.0	58.0	59.0	60.0	62.0

* Specified heating outputs at 20 °C intake temperature

TYPE		A30				
		1000	1500	2000	2500	3000
Installed width	mm					
Part no. with 230V AC motor		2140380	2140381	2140382	2140383	2140384
Part no. with 230V EC motor		2140395	2140396	2140397	2140398	2140399
CONTROL VOLTAGE 2V - STAGE 1						
Air volume	m ³ /h	1300	1750	2550	3100	3600
Air discharge *	°C	27.3	28.5	29.3	29.9	30.6
Heating output (total)	kW	3.3	5.1	8.2	10.6	13.2
Medium	m ³ /h	0.3	0.4	0.7	0.9	1.1
Medium pressure loss	kPa	0.8	0.9	1.7	2.4	4.2
Sound pressure level (3 m distance)	dB(A)	43.9	44.9	45.9	46.9	48.9
CONTROL VOLTAGE 4V - STAGE 2						
Air volume	m ³ /h	1550	2050	3000	3600	4200
Air discharge *	°C	27.0	28.2	28.9	29.5	30.2
Heating output (total)	kW	3.7	5.8	9.2	11.8	14.7
Medium	m ³ /h	0.3	0.5	0.8	1.0	1.3
Medium pressure loss	kPa	1.0	1.1	2.1	2.9	5.2
Sound pressure level (3 m distance)	dB(A)	47.2	48.2	49.2	50.2	52.2
CONTROL VOLTAGE 6V - STAGE 3						
Air volume	m ³ /h	1850	2500	3650	4350	5100
Air discharge *	°C	26.7	27.8	28.4	29.0	29.7
Heating output (total)	kW	4.3	6.7	10.6	13.5	16.9
Medium	m ³ /h	0.4	0.6	0.9	1.2	1.5
Medium pressure loss	kPa	1.3	1.4	2.7	3.6	6.6
Sound pressure level (3 m distance)	dB(A)	51.4	52.4	53.4	54.4	56.4
CONTROL VOLTAGE 8V - STAGE 4						
Air volume	m ³ /h	2200	2950	4300	5150	6000
Air discharge *	°C	26.3	27.4	28.0	28.5	29.2
Heating output (total)	kW	4.8	7.5	11.8	15.1	18.9
Medium	m ³ /h	0.4	0.7	1.0	1.3	1.6
Medium pressure loss	kPa	1.5	1.7	3.3	4.5	8.1
Sound pressure level (3 m distance)	dB(A)	55.0	56.0	57.0	58.0	60.0
CONTROL VOLTAGE 10V - STAGE 5						
Air volume	m ³ /h	2550	3400	4950	5950	6950
Air discharge *	°C	26.0	27.0	27.6	28.2	28.8
Heating output (total)	kW	5.3	8.3	13.0	16.7	20.9
Medium	m ³ /h	0.5	0.7	1.1	1.4	1.8
Medium pressure loss	kPa	1.8	2.0	3.9	5.3	9.6
Sound pressure level (3 m distance)	dB(A)	58.0	59.0	60.0	61.0	63.0

* Specified heating outputs at 20 °C intake temperature

SPECIFICATIONS

A10 / A20

TYPE		A10					A20				
		1000	1500	2000	2500	3000	1000	1500	2000	2500	3000
Installed width	mm	1000	1500	2000	2500	3000	1000	1500	2000	2500	3000
Weight	kg	45.0	55.0	75.0	90.0	105.0	46.0	65.0	84.0	103.0	122.0
Max. installed height	m	2.3	2.3	2.3	2.3	2.3	2.6	2.6	2.6	2.6	2.6
Average discharge speed	m/s	8.0	8.0	8.0	8.0	8.0	10.0	10.0	10.0	10.0	10.0
Pipe connections (female thread) Flow/return	inches	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
MAXIMUM POWER/CURRENT CONSUMPTION											
AC fan	kW	0.4	0.4	0.6	0.7	0.9	0.4	0.6	0.7	0.9	1.1
(230 V, 1 phase, 50 Hz)	A	1.7	1.7	2.6	3.4	4.3	1.7	2.6	3.4	4.3	5.1
EC fan	kW	0.3	0.3	0.5	0.7	0.9	0.3	0.5	0.7	0.9	1.0
(230 V, 1 phase, 50 Hz)	A	2.7	2.7	4.1	5.4	6.8	2.7	4.1	5.4	6.8	8.1

SPECIAL VERSION WITH ELECTRIC HEATING COIL (three-stage, 400 V, 3 phase, 50 Hz)

Stage 1	kW	3.0	4.5	6.0	8.0	9.0	4.0	6.0	8.0	9.0	12.0
Stage 2	kW	6.0	9.0	12.0	16.0	18.0	8.0	12.0	16.0	18.0	24.0
Stage 3	kW	9.0	13.5	18.0	24.0	27.0	12.0	18.0	24.0	27.0	36.0
Δt max.	K	14.8	18.6	19.7	19.4	18.5	19.7	19.4	19.4	17.5	19.4

TYPE		A30				
Installed width	mm	1000	1500	2000	2500	3000
Weight	kg	45.0	55.0	75.0	90.0	105.0
Max. installed height	m	3.0	3.0	3.0	3.0	3.0
Average discharge speed	m/s	10.5	10.5	10.5	10.5	10.5
Pipe connections (female thread) Flow/return	inches	3/4"	3/4"	3/4"	3/4"	3/4"
MAXIMUM POWER/CURRENT CONSUMPTION						
AC fan	kW	0.6	0.7	0.9	1.1	1.3
(230 V, 1 phase, 50 Hz)	A	2.6	3.4	4.3	5.1	6.0
EC fan	kW	0.5	0.7	0.9	1.0	1.2
(230 V, 1 phase, 50 Hz)	A	4.1	5.4	6.8	8.1	9.5

SPECIAL VERSION WITH ELECTRIC HEATING COIL (three-stage, 400 V, 3 phase, 50 Hz)

Stage 1	kW	5.0	7.5	10.0	12.0	12.0
Stage 2	kW	10.0	15.0	20.0	24.0	24.0
Stage 3	kW	15.0	22.5	30.0	36.0	36.0
Δt max.	K	16.4	18.5	16.9	16.9	14.5

CHECKLIST

Selection of warm air curtain unit taking all important criteria into account.

TL-3 checklist to evaluate ambient and local conditions

1. Installation height: (passage)	max.	2.3 m	① ... points
	max.	2.5 m	③ ...
	max.	3.0 m	④ ...
2. Passage width:	max.	1.5 m	① ...
	max.	2.0 m	② ...
	max.	3.0 m	③ ...
	max.	4.0 m	⑤ ...
	≥	6.0 m	⑧ ...
3. Room surface area:	to	100 m ²	① ...
	to	250 m ²	② ...
	to	500 m ²	③ ...
	to	750 m ²	④ ...
	to	1,000 m ²	⑤ ...
	Over	1,000 m ²	⑦ ...
4. Room height:	Standard height		① ...
	High ceiling		③ ...
	Upper floor with (indoor) staircase		⑤ ...
5. Further passages	None or on same wall		① ...
	Lateral		③ ...
	Opposite		⑤ ...
6. Windscreen:	Closed [double door]		① ...
	Open		② ...
	None		④ ...
7. Climatic conditions:	Positive pressure		① ...
	Pressure compensation		② ...
	Negative pressure		④ ...
8. Local conditions:	Separate row of houses		① ...
	Corner location/ bordering a square		⑤ ...
	Extreme location [e.g. riverbank, lakeside, hill top]		⑩ ...
9. Wind exposure:	Generally weak		② ...
	Average		⑤ ...
	Strong		⑩ ...
10. Direction:	North, east, south, west		- ① ...
	Sum of points		

CAPACITY SELECTION ACCORDING TO TABLE [depending on total number of points]

Number of points	Models	Door widths in m	Air flow rate per m door width m ³ /h	Heating output per m curtain kW *	Curtain discharge speed m/s	Installation height m
10	TL-2 A10	1 / 1.5 / 2 / 2.5 / 3	1400	7.7	8.0	2.3
20	TL-2 A20	1 / 1.5 / 2 / 2.5 / 3	1900	10.4	10.0	2.6
30	TL-2 A30	1 / 1.5 / 2 / 2.5 / 3	2900	14.8	10.5	3

* For PWW 60/40°C, intake temperature 20 °C, discharge temperature 32 °C

CONTROL**Controller type WTSC5**

5-stage or, in conjunction with EC motors, infinitely variable speed controller with additional functions, for adapting the air volume to different weather conditions, max. 10A

- Push button and latch switch for setting operating parameters
- LEDs for hours run display
- Wired control unit (remote control), control board in TL
- Manual/automatic setting; e.g. automatic door contacts, room thermostat
- Summer/winter setting (with or without heating medium)
- Enable DDC/BMS
- Operating message via potential-free contact

FROST THERMOSTAT**Frost stat type WTF, part no. 21 00 355**

Version with capillary sensor

Capillary length 3 m, with 1 switching circuit, designed as changeover switch.

For units with **WTC 3** and **WTC 5** controllers.

Function

The frost stat has a changeover contact that switches over when the temperature falls below 5 °C. The temperature can be set to between -10 °C and +12 °C.

Example:

If the temperature falls to 5 °C, the frost stat switches off the fans to prevent the heating coils from cooling down or freezing.

THERMOSTATIC CONTROL VALVE**Type WTR 2 (2-way valve) / WTR 3 (3-way valve)**

WTR 2 / WTR 3 thermostatic control valve with thermostatic head for a constant discharge temperature.

The WTR 2 / WTR 3 thermostatic control valves are automatic proportional controllers that regulate water flow rates. The valve opens when the sensor temperature drops.

Capillary tube length: Sensor 2 m

WTR 2 version: Straight-through valve DN 20, kvs = 5.0 or angle valve DN 20, kvs = 7.0

WTR 3 version: Three-way valve DN 20, kvs = 4.5

THERMOELECTRIC SHUT-OFF VALVE**Type WTAV (2-way valve)**

Thermoelectric shut-off valve, type **WTAV**, 230 V, normally closed.

In conjunction with WTC 3 or WTC 5 controllers.

To shut off the water flow in "summer" mode in conjunction with our controllers, or to regulate water flow rates with control systems provided by the customer.

WTAV version: Straight-through valve DN 20, kvs = 5.0 or angle valve DN 20, kvs = 7.0

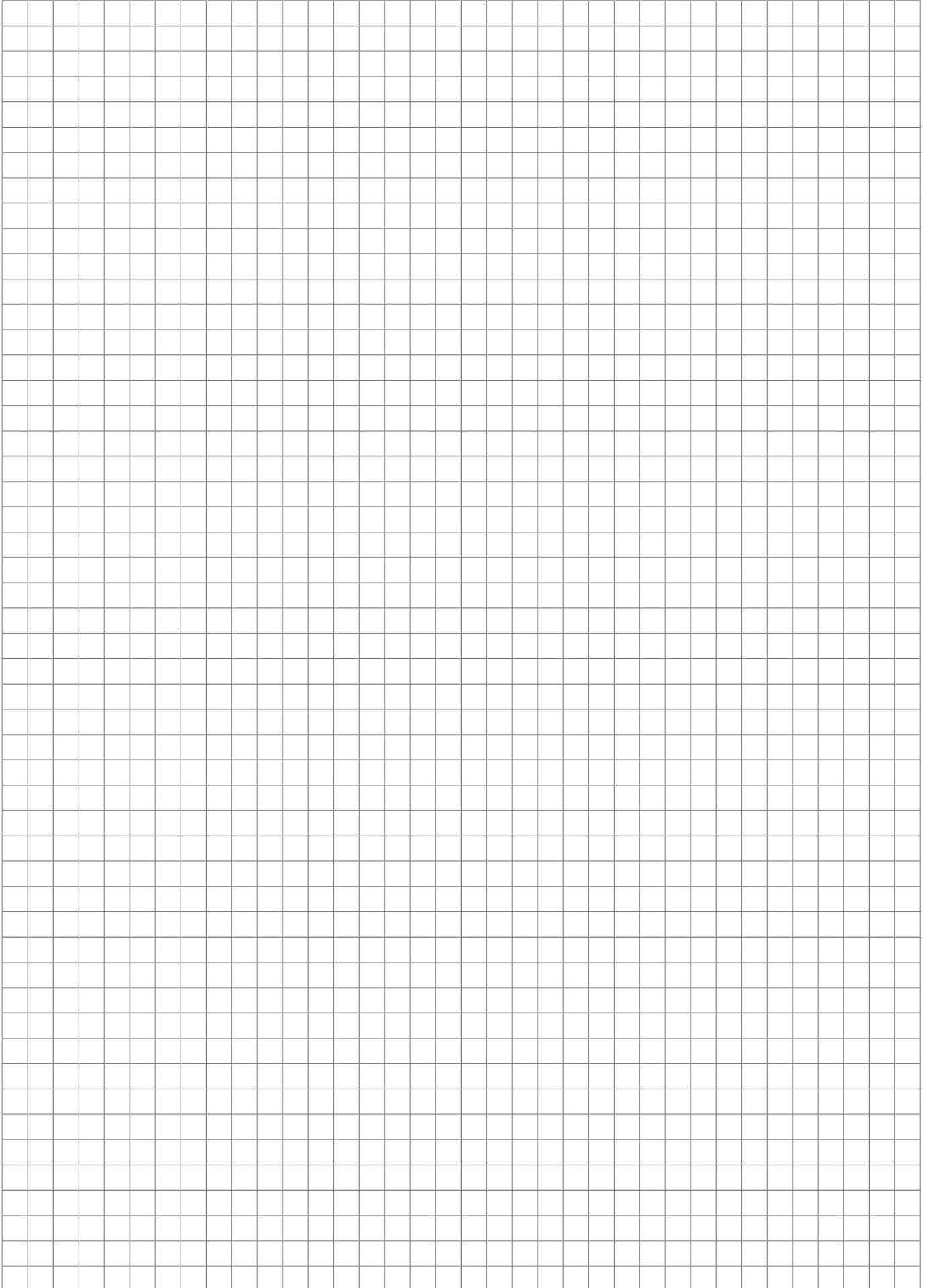
CEILING SUSPENSION DEVICE**Type WDH 4 / WDH 6**

The ceiling suspension device with integrated vibration damper type **WDH 4 / WDH 6** has threaded rods for length adjustment.

The threaded rods allow the ceiling suspension devices (which are required for an air curtain) to be adjusted, thereby ensuring that the air curtain is level.

Design: WDH 4 up to 2.0 m installed width; WDH 6 for 2.5 m or greater installed width.

NOTES



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