

Product catalogue and pricelist

January - July 2023

Winterwarm heating solutions

With this brochure you can simply select all necessary parts for a Winterwarm heating installation.

Winterwarm-quality

- More than 85 years of experience
- ISO 9001:2015 certified
- Quick delivery
- Reliable



Certificate
KSC-K080300834/06

Issued	2020-06-24	Replaces	KSC-K080300834/05
Valid until	2023-06-24	First issued	2005-04-19

ISO 9001

Kiwa has determined that the quality management system applied by
Winterwarm Heating Solutions B.V.
and its implementation comply with NEN-EN-ISO 9001:2015 for the scope:

The development, production and sales of gas- and oil fired air heaters.

Ron Scheepers
Kiwa

Please contact the certified company for more information about the scope
of this certificate in relation to the ISO 9001:2015 standard.

*This certificate consists of 1 page.
Publication of this certificate is allowed.*

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Prices in this catalogue are gross prices. For net prices you can contact
the export department in the Netherlands, or the Winterwarm distributor
in your country (check www.winterwarm.com for names and addresses
or call +31.543.546300)

Version: 1. January 2023 - valid until 30. June 2023

About us
Winterwarm, quality all over
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**Winterwarm
Water heater LT**
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Winterwarm HR
The condensing unit air heater
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Winterwarm EH
electrical heater
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Winterwarm HR-EC
The condensing unit air heater
with EC-fan
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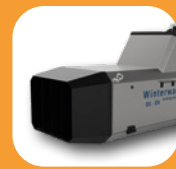
Controls
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Winterwarm XR+
Indirect fired unit air heater with
modulating burner and fan
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Winterwarm DX-EH
Electric air heater,
specifically for sustainable
heating of stables



Flue material
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Winterwarm DXC
Indirect fired air heater
with closed combustion
system for poultry houses
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Winterwarm ACM
Air curtain consisting
of separate modules
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Winterwarm DXE
Indirect fired air heater
for installation outside
the poultry house
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Destratification fans
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Winterwarm DXA/DXB
A direct fired heater on
gas or oil, engineered for
the agricultural market
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**Winterwarm
Water heater**
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Winterwarm DX Fan
For optimal air distribution in
poultry houses or glass houses
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**Winterwarm
Water heater EC**
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Introduction

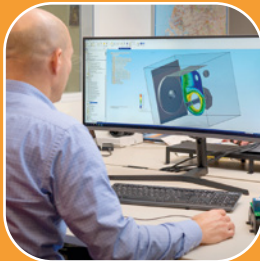
For more than 85 years, Winterwarm has occupied a leading position in the industrial heating market in the Netherlands. We achieved this by focussing on 3 things: quality, service and innovation. This focus has resulted in the fact that today Winterwarm is one of the leading manufacturers throughout Europe and in the agricultural heating market all over the world.



With all expertise we have gathered in the past years Winterwarm can play an important role in the energy transition. In our point of view we are moving towards not so much a “gasless” future as well a “fossil-free” future. We believe that the use of hydrogen gas will play an important role in the industrial and agricultural environment in the years to come.

Looking forward to a sustainable future

At this moment Winterwarm offers various sustainable heating solutions such as electric air heaters and water-supplied air heaters (in combination with a heating network, heat pump or boiler). When solar panels are present, our electric heater EH is a good solution for the sustainable heating of industrial premises. And where a gas-fired unit air heater is still the best solution for the moment, we have high-efficiency condensing air heaters HR available. In addition, we are working on the development of hybrid air heaters in various versions as a new sustainable heating solution for industrial environments.



Sustainable new business premises

In addition to manufacturing sustainable heating solutions, we have also moved in 2022 to the most sustainable building in Winterswijk, Green Leaf municipality 2022 herself. The new business premises has received a BREEAM certificate, which means that it must meet various sustainability criteria. A number of those criteria concern health, energy use, circularity of materials, land use and ecology. Winterwarm takes this seriously: we fulfilled the highest achievable BREEAM score: 'Outstanding'.

We are very happy to be able to take the next steps towards sustainable heating in this beautiful building together with our sister company WinLed Lighting Solutions.



Bart Looman

Bart Looman
Director



High quality product development

Winterwarm has its own R&D department which continuously works on the development of new products and the improvement of existing ones. Our goal is to provide our customers with a reliable product of high quality for a reasonable price. At this moment, our product range consists of 90% heaters which we engineered ourselves in the past 10 years, including 3 new types of heaters for the agricultural market.

Quality from top to bottom

Since 1992, Winterwarm has been ISO certified (ISO 9001:2015). Periodically the whole process of product engineering and development, production, delivery and after-sales service is audited by KIWA (the national gas institute in the Netherlands). Consequently, we continuously work to improve all aspects of our company processes. Before a heater leaves our factory, it is submitted to an extensive final test. This provides extra assurance to the installer and his customer that the heater will function well immediately after installation.

*Van Marcke - HVAC wholesaler
Roeselaere, Belgium
4x XR 60 heaters in VAM store*



*Vauxhall garage
Sheffield, United Kingdom
6.900 m² - XR + TR + WCU*



*Hennes & Mauritz
distribution centre Poznan, Poland
80.000 m² - 107x XR + TR*



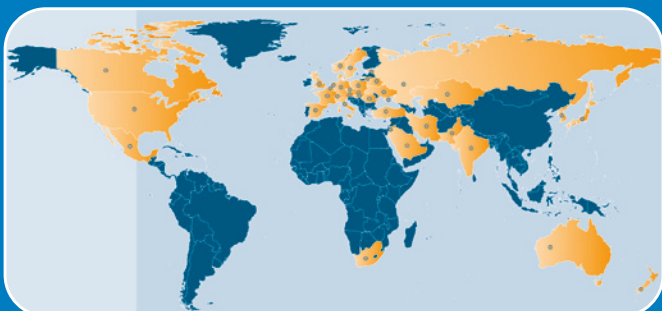
*Project in Ireland by JF McKenna.
New poultry house with 50.000 chickens
with 4 DXE heaters.*



*Jevansa Poultry - Erp (NL)
3 poultry houses with each 4 DXC
heaters for in total 120.000 chickens.*



Winterwarm World Wide



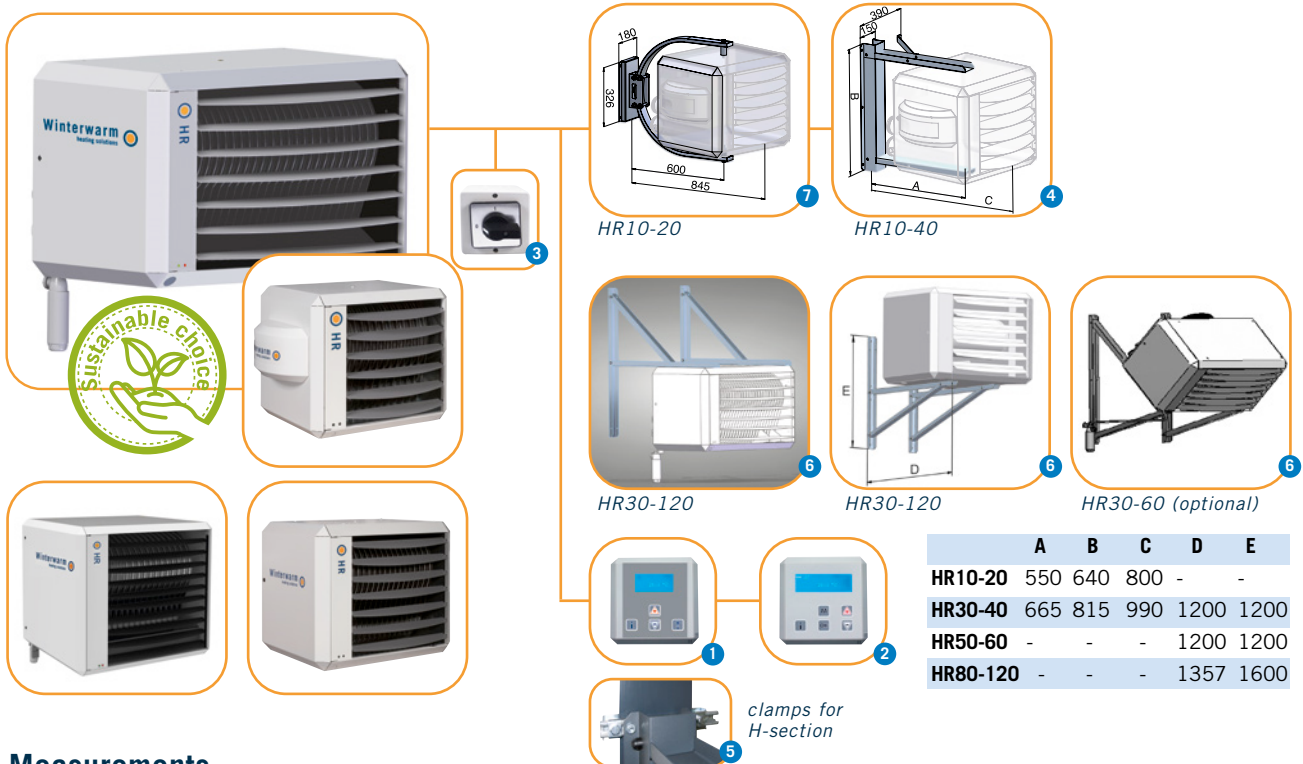
Winterwarm HR-series

The condensing unit air heater which combines efficient heating with energy savings and high comfort.

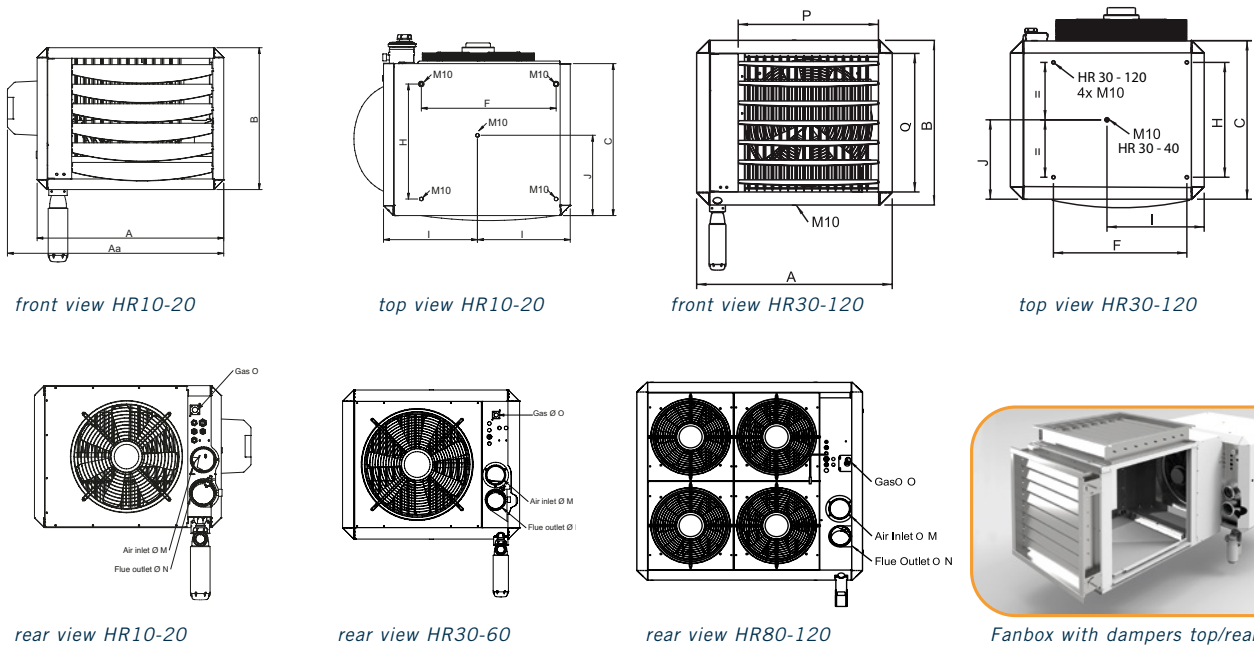
The whole serie complies with the strict ErP regulations which have come into effect as of 2021.

Characteristics

- high efficiency • energy saving (up to 25% compared to conventional heaters) • SS Heatexchanger as standard • modulating burner
- compact • option to suspend the heater under an angle of max. 45° (HR10- HR60) • easy to install • modulating clock thermostat • optional: control by 0-10 V or by modbus • delivery incl. siphon for condensate • IP00B



Measurements



	A	Aa	B	C	F	H	I	J	M	N	O	P	Q
HR10-20	650	755	495	530	470	400	325	280	ø80	ø80	1/2"	415	420
HR30	795	-	670	650	545	470	400	325	ø80	ø80	3/4"	575	565
HR40	795	-	670	650	545	470	400	325	ø80	ø80	3/4"	575	565
HR50-60	1065	-	670	650	143	815	175	90	ø80	ø80	3/4"	840	565
HR80-100	1135	-	1040	1010	822	700	235	155	100	100	1"	855	935
HR120	1280	-	1040	1010	972	700	235	155	130	130	1"	1005	935

Technical data HR-series

Type	Unit	HR10	HR20	HR30	HR40	HR50	HR60	HR80	HR100	HR120
Price gasfired* condensing air heater, natural gas	€	3110	3490	3960	4820	5460	6180	6520	8030	9480
Price gasfired* condensing air heater, propane	€	3205	3615	4115	4965	5690	6415	6600	8110	9565
Maximum nominal heat input (H.I.)	kW	12.5	20.0	30.0	40.0	50.0	60.0	72.0	91.0	111.0
Minimum nominal heat input (H.I.)	kW	4.0	6.0	9.0	12.0	15.0	18.0	24.0	30.0	36.0
Efficiency max. power	%	96.0	96.0	96.5	97.0	96.5	96.6	97.0	96.3	96.9
Efficiency 30% power	%	106	106	106	106	106	106	106	106	106
Maximum heat output	kW	12.0	19.2	29.0	38.8	48.3	58.0	69.8	88.3	107.7
Minimum heat output	kW	4.2	6.4	9.5	12.8	15.9	19.1	25.4	26.5	38.2
Max air output (warm)	m³/h	2,000	2,600	3,000	4,500	6,000	7,500	11,000	12,900	14,600
Throw horizontal (max)	m	15	20	23	26	28	30	42	48	49
Electrical Voltage (50 Hz)	V	230	230	230	230	230	230	230	230	230
Electrical power	W	250	250	275	450	450	600	780	790	1,240
Electrical current	A	1.1	1.1	1.2	2.0	2.6	2.6	3.5	3.7	5.5
Sound level (@ 4 meter), range	dB(A)	56-58	56-58	56-58	57-61	61-64	61-64	56-61	56-61	56-62
Weight	kg	45	50	75	85	105	110	190	200	225
Max gas consumption (G20)	m³/h	1.3	2.1	3.2	4.2	5.3	6.3	7.6	9.6	11.7
Max gas consumption (G31)	kg/h	1.0	1.6	2.4	3.2	4.0	4.8	5.8	7.3	8.9
Gas connection	G"	1/2	1/2	3/4	3/4	3/4	3/4	1	1	1
Minimum suspension height horizontal throw	m	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Max. length flue**	m	9	9	9	9	9	9	9	9	9

*) HR, gasfired condensing air heater, 45 degrees downwards, on request

**) for each 90° elbow, 1.5m. less; for each 45° elbow, 1 m. less.

Accessories HR-series

	Controls (more information on page 26)	applicable on	article no.	price €
1	Multitherm S roomthermostat for 1-8 heaters	HR10-HR120	IX3911	163
2	Multitherm C clockthermostat for 1-8 heaters	HR10-HR120	IX3912	314
	Remote Sensor, optional with MTC	HR10-HR120	GA3929	122
	Interface Board for connection to a BMS (max. 8 heaters)	HR10-HR120	IB5902	314
3	Power isolation switch, 230 V - 400 V, 25 Amp.	HR10-HR120	IK5281	70
	Modbus control set	HR10-HR120	GA5903	66
	0-10 V. input control set	HR10-HR120	GA5906	66
	Service parts box for HR	HR10-HR120	GA4002-1	917
	Set extern alarm signal	HR10-HR120	GA4009	26
	Suspension			
4	Suspension brackets	HR10-HR20	GA8610	169
4	Suspension brackets	HR30-HR40	GA8620	188
5	Clampset for mounting to H-profile (combined with GA8610, GA8620, GA8630)	HR10-HR40	GA8680	122
5	Clampset for mounting to H-profile (combined with GA8580)	HR30-HR60	GA8685	229
6	Cantilever brackets M (per set)	HR30-HR60	GA8580	176
6	Cantilever brackets L (per set)	HR80-HR120	GA8622	245
7	Design suspension	HR10-HR20	GA8630	260
	Additional			
	Set vertical louvres (4 pcs.)	HR10-HR20	GX2001	109
	Set vertical louvres (4 pcs.)	HR30-HR40	GX4001	137
	Set vertical louvres (6 pcs.)	HR50-HR60	GX6002	168
	Set vertical louvres (6 pcs.)	HR80-HR120	GX8010	179
	Condensate pump set incl. sifon adapter, hose connector, hose to waste soil pipe, and 6 m. hose for condensate discharge	HR10-HR120	GX8002	305
	Hose for condensate discharge 30m., ø10mm	HR10-HR120	IK5785	54
8	Fanbox HR for outside air entry, incl. connection piece and 2 dampers	HR30-HR60	GAX60110	875
	Servomotor 220V for dampers on fanbox	HR30-HR60	IK4800	542
	Remote step control for servomotor	HR30-HR60	IK4802	198

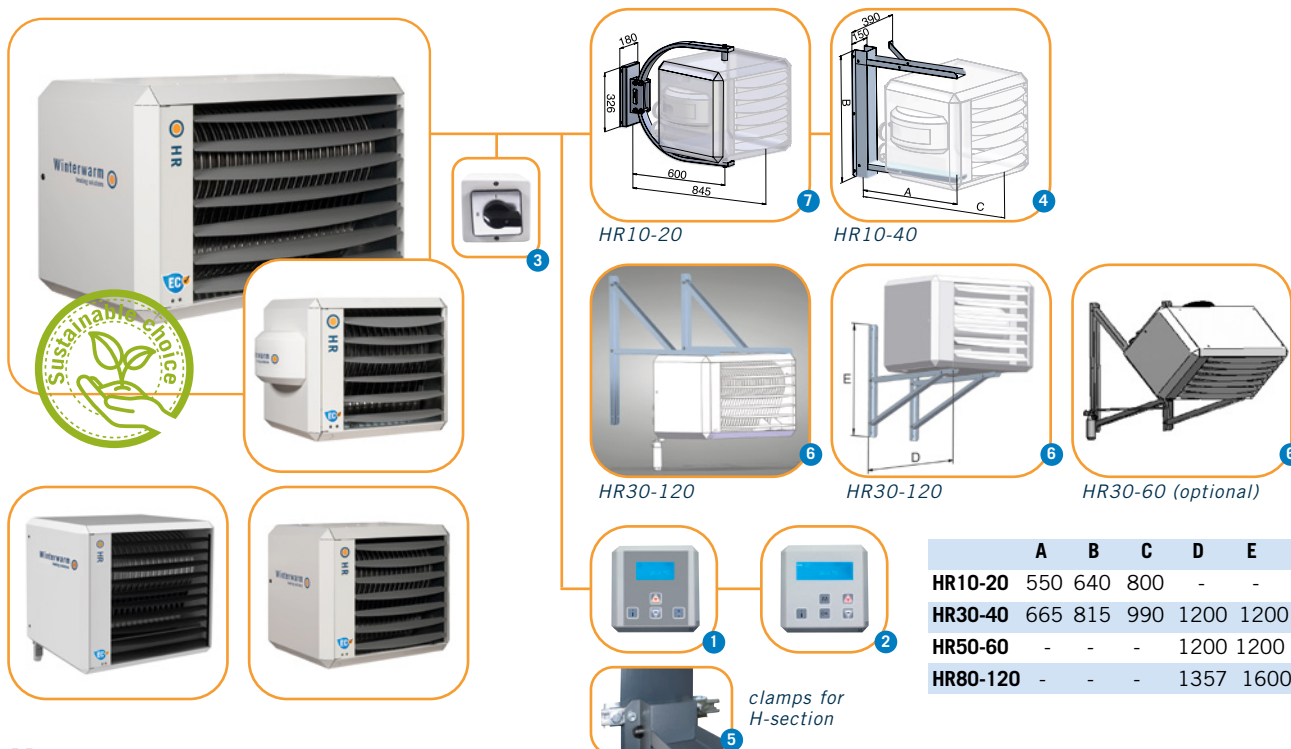
For flue material see page 12/13

Winterwarm HR EC-series

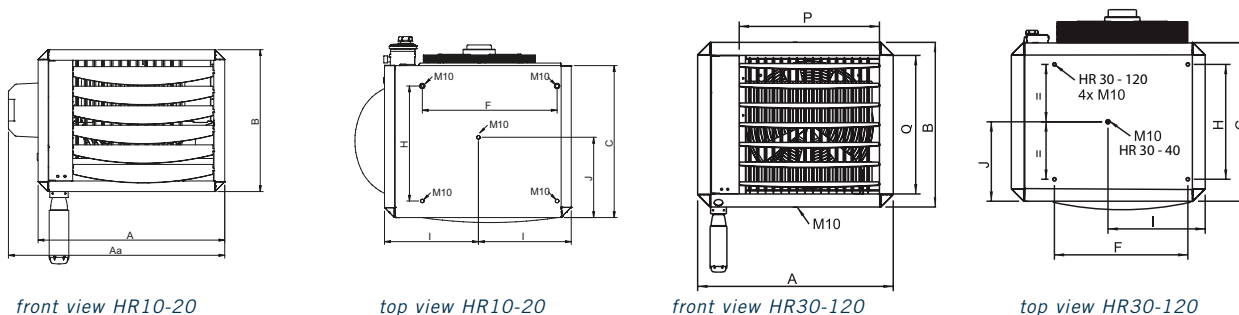
The most sustainable unit air heater from Winterwarm is the HR EC-series. These heaters are not only highly efficient as far as gas consumption is concerned, but also have a low electricity consumption and a low sound level because of the EC fan motor.

Characteristics

- high efficiency • energy saving (low gas consumption and low electricity consumption) • SS Heatexchanger as standard • modulating burner
- compact • option to suspend the heater under an angle of max. 45° (HR10 - HR60) • easy to install • modulating clock thermostat • optional: control by 0-10 V or by modbus • delivery incl. siphon for condensate • IP00B • very quiet



Measurements

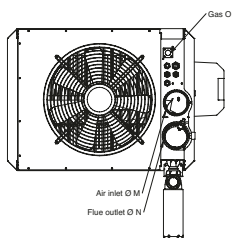


front view HR10-20

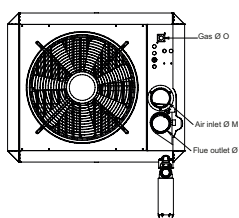
top view HR10-20

front view HR30-120

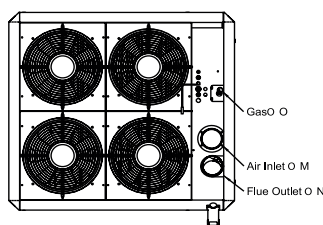
top view HR30-120



rear view HR10-20



rear view HR30-60



rear view HR80-120



Fanbox with dampers top/rear or bottom/rear - HR30-HR60

	A	Aa	B	C	F	H	I	J	M	N	O	P	Q
HR10-20EC	650	755	495	530	470	400	325	280	ø80	ø80	1/2"	415	420
HR30EC	795	-	670	650	545	470	400	325	ø80	ø80	3/4"	575	565
HR40EC	795	-	670	650	545	470	400	325	ø80	ø80	3/4"	575	565
HR50-60EC	1065	-	670	650	143	815	175	90	ø80	ø80	3/4"	840	565
HR80-100EC	1135	-	1040	1010	822	700	235	155	100	100	1"	855	935
HR120EC	1280	-	1040	1010	972	700	235	155	130	130	1"	1005	935

Technical data HR EC-series

Type	Unit	HR10EC	HR20EC	HR30EC	HR40EC	HR50EC	HR60EC	HR80EC	HR100EC	HR120EC
Price horizontal* throw natural gas	€	3560	3950	4420	5290	6050	6855	7640	9215	10760
Price horizontal* throw propane	€	3655	4075	4575	5435	6280	7090	7760	9340	10890
Maximum nominal heat input (H.I.)	kW	12.5	20.0	30.0	40.0	50.0	60.0	72.0	91.0	111.0
Minimum nominal heat input (H.I.)	kW	4.0	6.0	9.0	12.0	15.0	18.0	24.0	25.0	32.0
Efficiency max. power	%	96.0	96.0	96.5	97.0	96.5	96.6	97.0	96.3	96.9
Efficiency 30% power	%	106.0	106.0	106.0	106.5	106.0	106.0	106.0	106.0	106.0
Maximum heat output	kW	12.0	19.2	29.0	38.8	48.3	58.0	69.8	88.3	107.7
Minimum heat output	kW	4.2	6.4	9.5	12.8	15.9	19.1	25.4	26.5	38.2
Throw horizontal	m	15	20	23	26	28	30	42	48	49
Voltage (50Hz)	V	230	230	230	230	230	230	230	230	230
Elektrical power	W	160	160	175	260	475	500	750	830	1,100
Elektrical current	A	1.3	1.3	1.6	1.2	2.3	2.5	3.4	3.8	5.1
Air output high (warm)	m³/h	2,200	2,650	3,150	4,500	6,700	6,700	12,400	13,500	15,400
Air output low (warm)	m³/h	1,600	1,700	1,900	2,500	4,000	4,000	10,500	13,200	11,100
Sound level (@ 4 meter)	dB(A)	42-54	42-54	43-55	47-61	48-64	48-64	50-60	50-60	56-61
Weight	kg	45	50	75	85	105	110	190	200	225
Gas consumption natural gas (G20)	m³/h	1.3	2.1	3.2	4.2	5.3	6.3	7.6	9.6	11.7
Gas consumption propane (G31)	kg/h	1.0	1.6	2.4	3.2	4.0	4.8	5.8	7.3	8.9
Gas connection	G"	1/2	1/2	3/4	3/4	3/4	3/4	1	1	1
Min. suspension height hor. throw	m	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
Max. length flue vertical and horizontal** m		9	9	9	9	9	9	9	9	9

*) HR, gasfired condensing air heater, 45 degrees downwards, on request

**) for each 90° elbow, 1.5m. less; for each 45° elbow, 1 m. less. Condensation exhaust necessary when flue > 4m

Accessories HR EC-series

	Controls (more information on page 26)	applicable on	article no.	price €
1	Multitherm S roomthermostat for 1-8 heaters	HR10-HR120	IX3911	163
2	Multitherm C clockthermostat for 1-8 heaters	HR10-HR120	IX3912	314
	Remote Sensor, optional with MTC	HR10-HR120	GA3929	122
	Interface Board for connection to a BMS (max. 8 heaters)	HR10-HR120	IB5902	314
3	Power isolation switch, 230 V - 400 V, 25 Amp.	HR10-HR120	IK5281	70
	Modbus control set	HR10-HR120	GA5903	66
	0-10 V. input control set	HR10-HR120	GA5906	66
	Service parts box for HR	HR10-HR120	GA4002-1	917
	Set extern alarm signaal	HR10-HR120	GA4009	26
	Suspension			
4	Suspension brackets S	HR10-HR20	GA8610	169
4	Suspension brackets M	HR30-HR40	GA8620	188
5	Clampset for mounting to H-profile (combined with GA8610, GA8620, GA8630)	HR10-HR40	GA8680	122
5	Clampset for mounting to H-profile (combined with GA8580)	HR30-HR120	GA8685	229
6	Cantilever brackets (per set) M	HR30-HR60	GA8580	176
6	Cantilever brackets L (wall suspension)	HR80-120	GA8622	245
7	Design suspension	HR10-HR20	GA8630	260
	Additional			
	Set vertical louvres (4 pcs.)	HR10-HR20	GX2001	109
	Set vertical louvres (4 pcs.)	HR30-HR40	GX4001	137
	Set vertical louvres (6 pcs.)	HR50-HR60	GX6002	168
	Set vertical louvres (6 pcs.)	HR80-HR120	GX8010	179
	Condensate pump set incl. sifon adapter, hose connector, hose to waste soil pipe, and 6 m. hose for condensate discharge	HR10-HR120	GX8002	305
	Hose for condensate discharge 30m., Ø10mm	HR10-HR120	IK5785	54
8	Fanbox HR for outside air entry, incl. connection piece and 2 dampers	HR30-HR60	GAX60110	875
	Servomotor 220V for dampers on fanbox	HR30-HR60	IK4800	542
	Remote step control for servomotor	HR30-HR60	IK4802	198

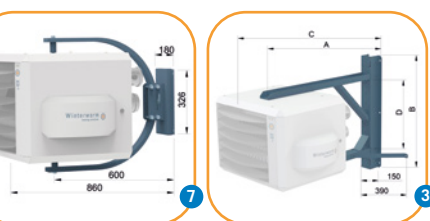
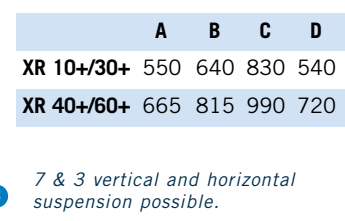
For flue material see page 12/13

Winterwarm XR+ series

Winterwarm presents the XR+ range: a complete upgrade from the well-known XR unit air heaters which comply with the ErP2021 directive. A non-condensing gas fired heater with improved performance for a comfortable and efficient heating of industrial and commercial buildings.

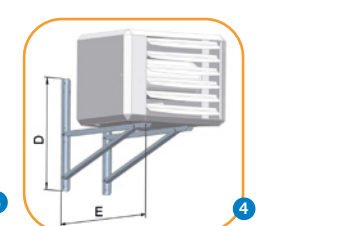
Characteristics XR+:

- compact and reduced weight
- non-condensing (no condensate drain necessary)
- flexible airflow direction, incl. vertical
- inverted heat exchanger gives more even air temperature
- increased air volume
- delta-T control
- modulating premix burner and fan
- control up to 8 heaters with one thermostat
- optional: control by 0-10 V or by modbus
- protection degree IP00B

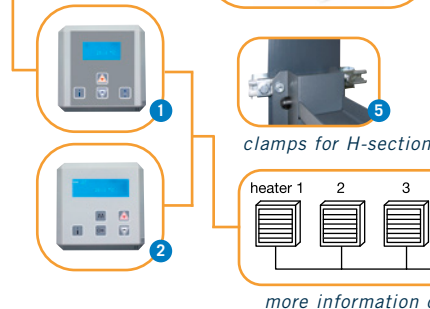
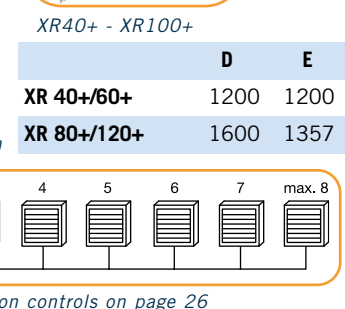
	A	B	C	D
XR 10+/30+	550	640	830	540
XR 40+/60+	665	815	990	720

7 & 3 vertical and horizontal suspension possible.

	D	E
XR 40+/60+	1200	1200
XR 80+/120+	1600	1357

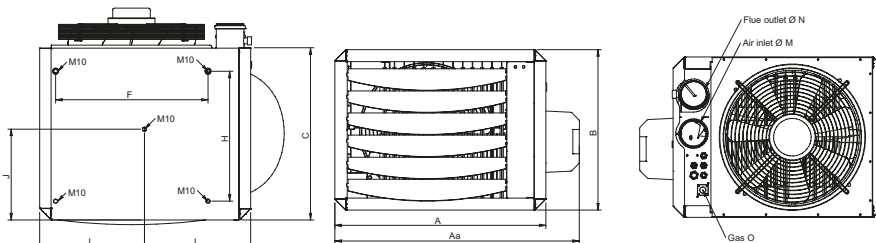
clamps for H-section

more information on controls on page 26

Measurements

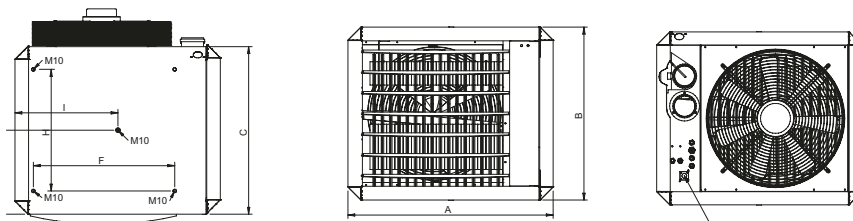
XR10+ - XR30+



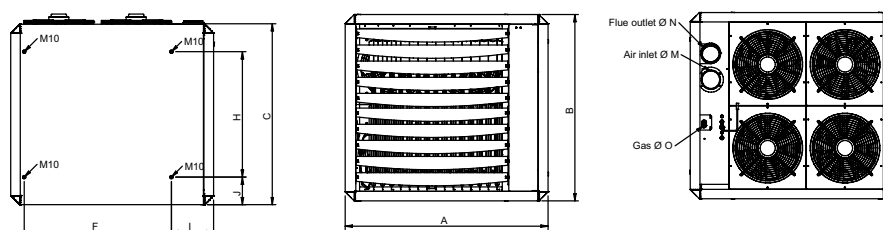
XR40+ - XR60+



Fanbox with dampers top/rear or bottom/rear



XR80+ - XR120+



	A	Aa	B	C	F	H	I	J	M	N	O
XR10+-XR30+	650	755	495	530	470	400	325	280	80	80	1/2"
XR40+-XR60+	795	-	670	650	546	470	400	325	80	80	3/4"
XR80+-XR100+	1135	-	1040	1010	822	700	235	155	100	100	1"
XR120+	1280	-	1040	1010	972	700	235	155	130	130	1"

Technical data XR+ series

Type	Unit	XR 10+	XR 20+	XR 30+	XR 40+	XR 50+	XR 60+	XR 80+	XR 100+	XR 120+
Price natural gas	€	2495	2790	3165	3880	4375	4945	5925	6750	8105
Price propane	€	2565	2915	3340	4000	4600	5180	6000	6830	8190
Nominal heat input max. (h.i.)	kW	14.0	22.8	32.0	44.0	55.0	66.0	72.0	91.0	111.0
Nominal heat input min. (h.i.)	kW	8.5	13.5	18.0	26.4	33.0	39.6	48.0	60.0	72.0
Maximum efficiency	%	93.8	94.6	94.6	95.8	95.6	95.6	95.9	96.0	96.4
Maximum heat output	kW	12.7	20.7	28.9	41.1	50.7	61.2	68.6	86.9	105.6
Minimum heat output	kW	8.0	12.8	17.0	25.3	31.5	37.9	46.0	57.6	69.4
Air output (warm)	m³/h	2,750	4,000	4,200	5,400	8,000	8,000	10,200	10,700	13,000
Throw horizontal	m	22	30	31	32	46	46	38	40	43
Throw vertical (warm)	m	5	5	6	7	7	8	-	-	-
Voltage (50Hz)	V	230	230	230	230	230	230	230	230	230
Electrical power	W	200	300	300	325	750	750	730	760	1,210
Electrical current	A	0.9	1.4	1.4	1.5	3.5	3.5	3.3	3.5	6
Sound level (@ 5 meter)	dB(A)	54-56	56-59	56-59	54-59	58-64	58-64	58-62	58-62	58-62
Weight	kg	46	50	53	78	80	82	185	195	215
Gas consumption natural gas (G20)	m³/h	1.5	2.4	3.4	4.7	5.8	7.0	7.6	9.6	11.7
Gas consumption propane (G31)	kg/h	1.1	1.8	2.5	3.5	4.4	5.3	5.8	7.3	8.9
Gas connection	G"	1/2	1/2	1/2	3/4	3/4	3/4	1"bi	1"bi	1"bi
Min. suspension height horizontal throw	m	1.7	1.7	1.7	2.7	2.7	2.7	2.7	2.7	2.7
Min. suspension height vertical throw	m	4	4	4	5	6	6	-	-	-
Max. length flue hor. throw	m	6	6	6	8	8	8	9	9	9
Max. length flue vert. throw	m	2	2	2	2	2	2	-	-	-

**) for each 90° elbow, 1.5m. less; for each 45° elbow, 1 m. less. Condensation exhaust necessary when flue > 4m*

Accessories XR+ series

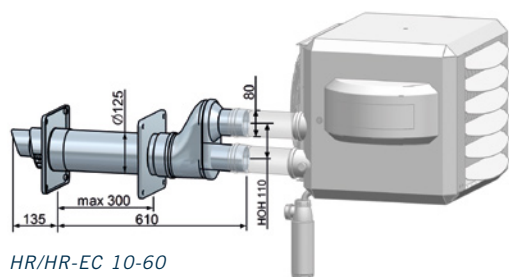
	Controls (more information on page 26)	applicable on	article no.	price €
1	MultiTherm S thermostat for 1-8 unit air heaters with external enable/disable option	XR10+ - XR120+	IX3911	163
2	MultiTherm C clock thermostat for 1-8 unit air heaters	XR10+ - XR120+	IX3912	314
	Remote sensor, optional with MTC	XR10+ - XR120+	GA3929	122
	Interface board for connection to a BMS (max. 8 heaters)	XR10+ - XR120+	IB5902	314
	MTS with extra input relay	XR10+ - XR120+	GX3955	221
	MTC with extra input relay	XR10+ - XR120+	GX3956	405
	Power isolation switch, 230 V - 400 V, 25 Amp.	XR10+ - XR120+	IK5281	70
	Service parts box for XR+	XR10+ - XR120+	GA4002-1	917
	Modbus control set	XR10+ - XR120+	GA5903	66
	0-10 V. input control set	XR10+ - XR120+	GA5906	66
	Set extern alarm signal	XR10+ - XR120+	GA4009	26
	Suspension			
3	Suspension brackets S (wall- or ceiling suspension)	XR10+ - XR30+	GA8610	169
3	Suspension brackets M (wall- or ceiling suspension)	XR40+ - XR60+	GA8620	188
4	Cantilever brackets M (wall suspension)	XR40+ - XR60+	GA8580	176
4	Cantilever brackets L (wall suspension)	XR80+ - XR120+	GA8622	245
5	Clamps for H-section, together with GA8580	XR10+ - XR60+	GA8680	122
6	Vertical suspension kit 80-165 cm	XR10+ - XR60+	GA8645	188
7	Design suspension	XR10+ - XR30+	GA8630	260
	Additional			
	Set vertical louvres (4 pcs)	XR10+ - XR30+	GX2001	109
	Set vertical louvres (4 pcs)	XR40+ - XR60+	GX4001	137
	Set vertical louvres (6 pcs)	XR80+ - XR80+	GX8010	179
8	Fanbox HR for outside air entry, incl. connection piece and 2 dampers	XR40+ - XR60+	GAX60110	875
	Servomotor 220V for dampers on fanbox	XR40+ - XR60+	IK4800	542
	Remote step control for servomotor	XR40+ - XR60+	IK4802	198

For flue material see page 12/13

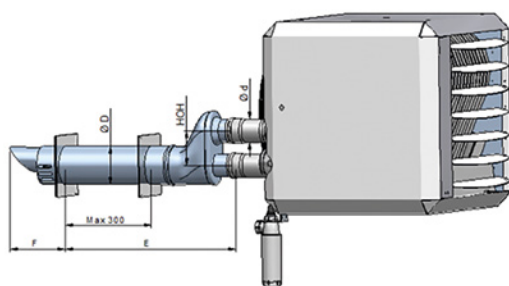
Flue terminals

All Winterwarm gas fired unit air heaters are CE-approved with their own flue terminal system. These should be ordered together with the heater (roof or wall terminal).

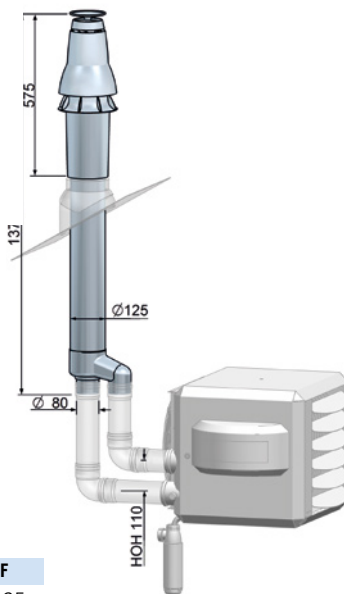
For HR/HR-EC unit air heaters



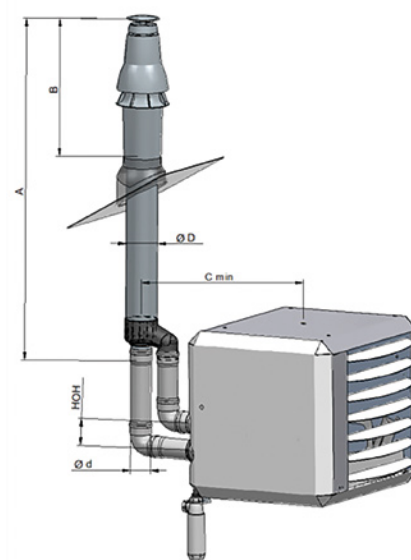
HR/HR-EC 10-60



HR/HR-EC 80-120



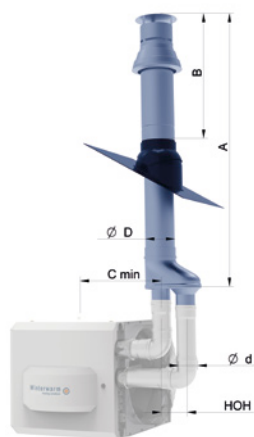
HR/HR-EC 10-60



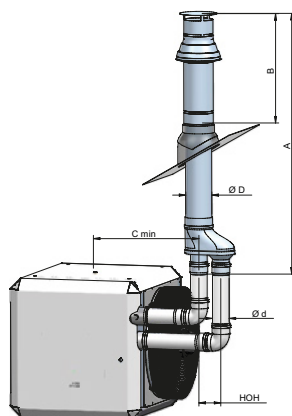
HR/HR-EC 80-120

	Ød	ØD	HOH	A	B	C min.	E	F
HR 10-60	80	125	110	1370	575	500	610	135
HR 80-120	100	150	140	1550	930	700	610	160
HR 120	130	200	225	1745	930	730	750	300

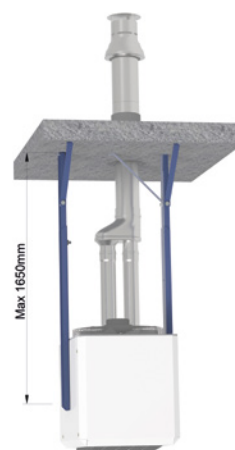
For XR+ unit air heaters



XR10+ - XR30+



XR40+ - XR120+



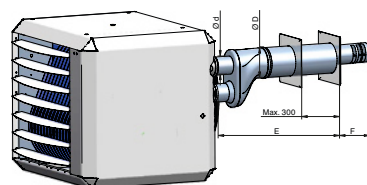
XR10+ - XR60+



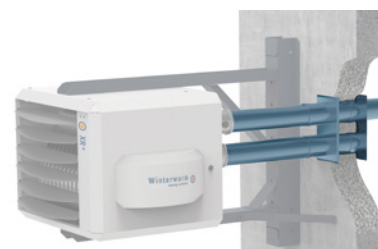
XR10+ - XR30+



XR10+ - XR30+



XR40+ - XR120+



XR10+ - XR30+

	Ød	ØD	HOH	A	B	C min.	E	F
XR10+ / XR60+	80	125	110	1200	400	500	610	135
XR80+ / XR100+	100	150	140	1200	500	600	610	180
XR120+	130	200	225	1850	955	-	750	190

Easy Fix: fits exactly
No extra parts necessary

Various flue materials

Winterwarm offers extra flue material to extend the flue system and different kinds of roof sheets.

Type (aluminium 0,7mm)	diameter	article no.	price €
Elbow 90°	Ø 80	IA8123	17
Elbow 45°	Ø 80	IA8200	16
Pipe 1000 mm	Ø 80	IA8128	27
Pipe 500 mm	Ø 80	IA8250	21
Elbow 90°	Ø 100	IA8167	25
Elbow 45°	Ø 100	IA8163	19
Pipe 1000 mm	Ø 100	IA8156	34
Pipe 500 mm	Ø 100	IA8150	22
Elbow 90°	Ø 130	IA8367	40
Elbow 45°	Ø 130	IA8363	36
Pipe 1000 mm	Ø 130	IA8356	47
Pipe 500 mm	Ø 130	IA8350	38

Type (aluminium 1,5mm)	diameter	article no.	price €
Elbow 90°	Ø 80	IA8220	24
Elbow 45°	Ø 80	IA8221	24
Pipe 1000 mm	Ø 80	IA8129	38
Pipe 500 mm	Ø 80	IA8222	22
Elbow 90°	Ø 100	IA8168	34
Elbow 45°	Ø 100	IA8162	28
Pipe 1000 mm	Ø 100	IA8158	49
Pipe 500 mm	Ø 100	IA8152	32
Elbow 90°	Ø 130	IA8368	95
Elbow 45°	Ø 130	IA8362	63
Elbow 30°	Ø 130	IA8360	65
Pipe 1000 mm	Ø 130	IA8358	71
Pipe 500 mm	Ø 130	IA8352	45

	article no.	price €
Roof sheet RP 80/125	IA8121	20
Adjustable roof sheet CL 80/130 (25°-45°)	IA8124	61
Conical roof sheet CP 100/160 (45°), incl. storm collar	GA8132	228
Roof sheet RP 100/150	IA8321	36
Conical roof sheet CP (45°) CL 100/160 incl. storm collar	GA8142	399
Adjustable conical lead sheet CL 100/160	IA8143	63
Roof sheet RP 130/210	IA8322	42
Adjustable roofsheet 130/200 (25°-55°)	IA8341	271
Conical roof sheet CP 130/210 (up to 45°), incl. storm collar	GA8332	380
Roof sheet set 130/210 for trapezodial roof	GA8334	222

Flue material for HR series	applicable on	article no.	price €
DDV 80/125 HR Roofterminal	HR10-HR60	IA8214	151
CT 80/125 HR Wall terminal	HR10-HR60	IA8216	129
DDV 100/150 HR	HR80-HR100	IA8108	342
CT 100/150 HR	HR80-HR100	IA8114	222
DDV 130/210 HR Roofterminal	HR120	IA8307	545
CT 130/210 HR Wall terminal	HR120	IA8314	399

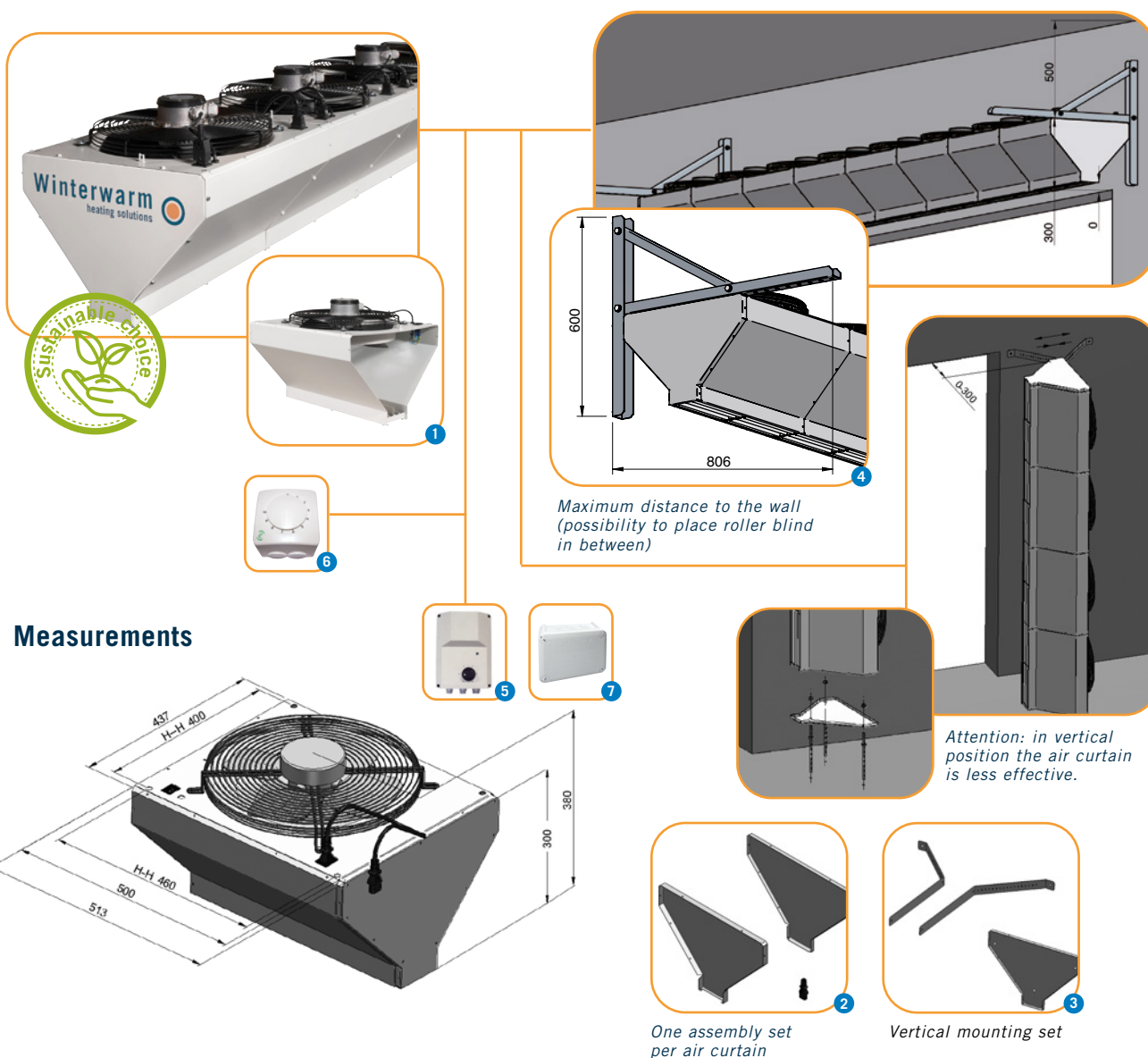
Flue material for XR series	applicable on	article no.	price €
Roof terminal DDV 80/125	XR10+ - XR60+	IA8202	189
Wall terminal MDV 80 (2-pipes)	XR10+ - XR60+	IA8212	154
Easy Fix wall terminal	XR10+ - XR30+	GA8201	228
Concentric wall terminal CT 80/125	XR10+ - XR60+	IA8113	132
Roof terminal DDV 100/150	XR80+ - XR100+	IA8101	273
Concentric wall terminal CT 100/150	XR80+ - XR100+	IA8112	222
Roof terminal DDV 130/200	XR120+	IA8305	464
Concentric wall terminal CT 130/200	XR120+	IA8312	305

Winterwarm ACM

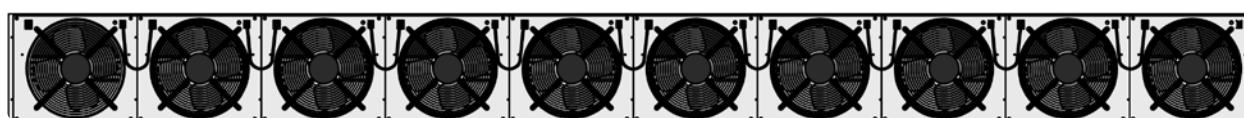
Winterwarm presents a modular air curtain. The modular construction enables you to assemble an air curtain for each door width. The ACM creates a comfortable room climate, prevents drafts and intrusion of polluted outside air. The ACM is available as standard model and as special model equipped with EC fan motor for low electricity consumption, a low sound level and a higher air volume.

Characteristics ACM:

- applicable for all doors with a height of 5,5 m. or less
- modular construction
- vertical and horizontal positioning possible
- possibility to place underneath overhead-door
- high air output
- innovative application of Gurney flap which results in a relative high-air speed at floor level
- adjustable louvres to create optimum air flow
- low weight
- EC-model: stepless speed controller



Example for a door of 5.00 m:



Top view



Front view

Width 5010 mm. (When more than 10 modules are necessary, extra support is required.)

Technical data ACM-series

Number of modules	Unit	1	4	5	6	7	8	9	10
Length incl. endplates*	mm	520	2020	2520	3020	3520	4020	4520	5020
Max. suspension height	m	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Air output	m ³ /h	1,900	7,600	9,500	11,400	13,300	15,200	17,100	19,000
Voltage (50 Hz)	V	230	230	230	230	230	230	230	230
Accumulated power consumption**	A	1.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
Sound level (@ 5 meter)	dB(A)	64	70	71	72	73	73	73	74
Weight	kg	12	48	60	72	84	96	108	120

Technical data ACM EC-series

Number of modules	Unit	1	4	5	6	7	8	9	10
Length incl. endplates*	mm	520	2,020	2,520	3,020	3,520	4,020	4,520	5,020
Max. suspension height	m	5.5	5,5	5.5	5.5	5.5	5.5	5.5	5.5
Air output	m ³ /h	2,250	9,000	11,250	13,500	15,750	18,000	20,250	22,500
Accumulated power consumption**	A	0.9	3.8	4.7	5.6	6.6	7.6	8.5	9.4
Sound level (@ 5 meter)	dB(A)	34-53	37-57	37-58	38-58	38-59	39-59	39-60	39-60
Weight	kg	10	40	50	60	70	80	90	100

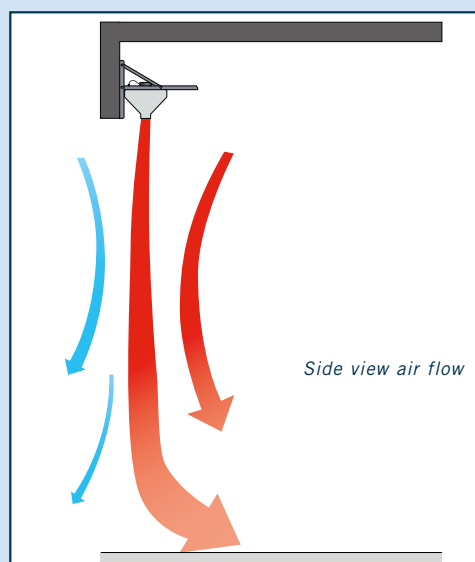
*) To realise a good separation, the air curtain should be wider than the door opening

**) Attention: supply current is max. 10A, so for more than 10 sections, more supply connections are necessary

Accessories ACM-series

	Description	article no.	price €
1	Heater module ACM*	GVACM	490
	Heater module ACM-EC* (1 module = 52 cm)	GVACMEC	725
2	Assembly set (incl. 2 end plates and 1 connector) Per air curtain one assembly set is required	GA8700	54
3	Vertical mounting set (incl. bottom plate and 2 support strips)	GA8585	54
4	Horizontal mounting consoles (max. 10 modules per set)	GA8575	193
5	5-step switch 5 Amp.	IA8543	302
5	5-step switch 8 Amp.	IA8544	401
5	5-step switch 11 Amp.	IA8515	515
5	5-step switch 15 Amp.	IA8516	835
6	Stepless speedcontroller, 0-10V.	GA3955	92
7	Relay for door contact, 230 V., 20 Amp.	GA4100	120
7	Relais for door contact, 230 V, 10 Amp. for ACM-EC	GA4101	120

*) The width of the door determines the number of modules to order.



The aircurtain is keeping the cold air out, and contributes to the realisation of the required room temperature because the warm air underneath the sealing is transported downwards.

Destratification fans

Nowadays buildings are well insulated; this limits the required heating capacity in a room. In this situation, however, it is very important to achieve a good recirculation of the warm air in the room by installing destratification fans. The installation of a destratification fan pays for itself quickly because of the significant energy savings. All WCU models are available with EC-motor which reduces the electricity consumption with 25%. Winterwarm has 2 types of destratification fans: recirculation unit WCU and a 3-blade ceiling fan Rendoment.

Characteristics destratification fans:

- extra circulation of warm air • reduced heat losses • increased comfort • temperature gradient drops • energy savings • WCU IP30 • Rendoment IP20 • option: EC motor • stepless control air volume (WCU-EC)

Recirculation unit WCU



WCU, for installation in rooms from 5 to 12 m. high



The WCU fans are all as standard provided with a room thermostat 230 V. and a socket connector.

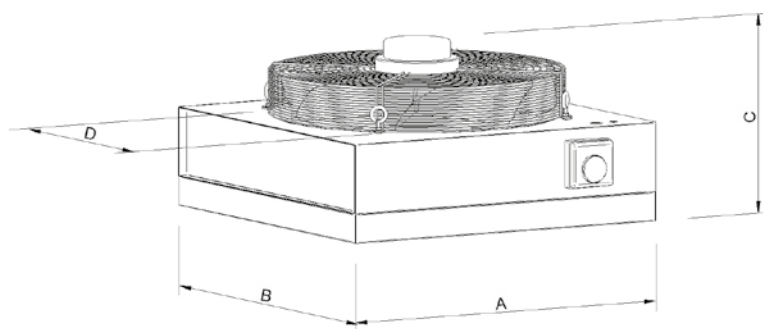
Ceiling fan Rendoment



Total height 69 cm.



Measurements

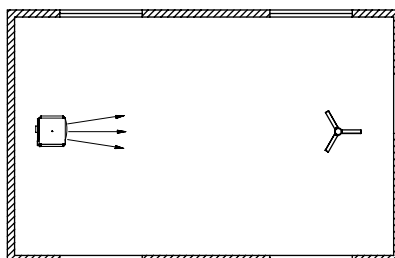
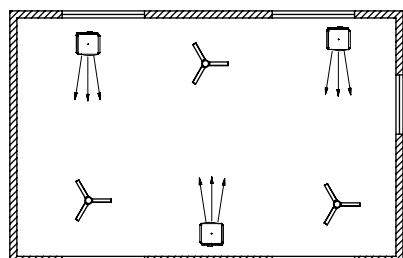


provided with 4 suspension screws $\varnothing 10$ mm

Measurements WCU (in mm)

Type	40	60	80	100
A	470	600	600	800
B	470	600	600	800
C	289	319	328	438
C (voor EC)	255	269	269	396
D	300	375	400	740

Typical installations



Install destratification fans always at the end of the throw (to prevent air swirls) or above a location which is not reached by the air current of the heater.

Technical data destratification fans

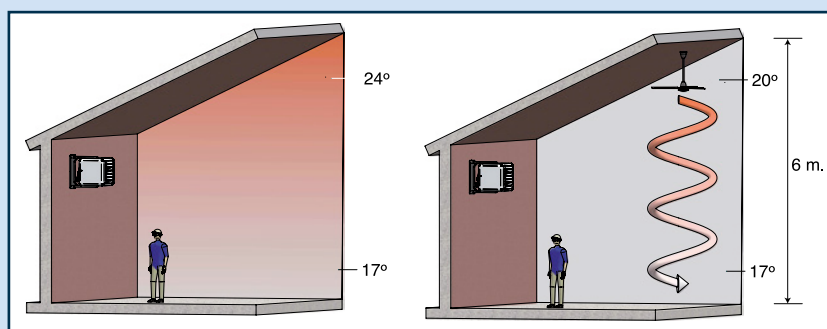
Type	Unit	WCU40	WCU60	WCU80	WCU100	WCU40EC	WCU60EC	WCU80EC	WCU100EC	Rendovent black/white
Price	€	695	820	1065	1295	985	1340	1655	2085	220
Air output	m ³ /h	3,200	5,600	7,000	10,000	3,300	5,700	7,000	10,000	13,000
Diameter fan	mm	350	450	500	650	350	450	450	650	1420
Distance fan to ceiling	cm	35	45	50	65	35	45	50	65	65
Throw vertical	m	5-8	7-10	8-12	12-15	5-9	7-11	8-12	12-15	3-7
Voltage (50Hz)	V	230	230	230	230	230	230	230	230	230
Electrical power	W	155	290	400	480	136	320	490	550	75
Electrical current	A	0.75	1.3	1.85	2.1	1.1	1.4	2.1	2.5	0.35
Revolutions per minute	rpm	1,380	1,360	1,315	1,000	1,530	1,300	1,500	1,050	300
Sound level (@ 6 mtr), range dB(A)		33-56	35-59	37-59	39-58	33-55	33-59	37-59	37-55	36
Sound level (@ 8 mtr), range dB(A)		31-54	33-57	35-57	37-56	31-53	31-57	35-57	35-53	-
Weight	kg	11	18	18	43	11	18	18	43	9.5

Accessories WCU-series

Type	article no.	price €
1 Suspension set WCU	GA8570	40
2 Room thermostat on/off 230V, 10 Amp., IP30	IW3960	45
2 Room thermostat on/off 230V, 10-200 mAmp., IP30 for WCU EC	IW3961	45
3 Stepless switch 3 Amp. (for 1-7 Rendovents)	IA8509	147
4 Stepless controller with 2 temperature sensors (controls RPM of Rendovent)	IA3917	582
5 5-step switch 2.2 Amp.	IA8540	267
5 5-step switch 3.5 Amp.	IA8542	273
5 5-step switch 5.0 Amp.	IA8543	302
5 5-step switch 8.0 Amp.	IA8544	401
5 5-step switch 11 Amp.	IA8515	515
5 5-step switch 15 Amp.	IA8516	835
6 Stepless speed controller 0-10 V., for WCU-EC	GA3955	92

Advantages application destratification fans:

- Temperature gradient drops
- Heat transmission loss reduces
- Energy savings (20 to 30%!)
- Higher comfort
- Extra air circulation in the summer
- Easy to install



Without application of destratification fans the temperature gradient increases with 1,3°C per 1 m. height*

For rooms with more than 5 m. height, Winterwarm advises to always install destratification fans; rule of thumb is 1 per 300 m².*

Room volume m ³	<1.000	2.000	3.000	5.000	7.000	9.000	12.000
Minimal desired recirculation multiple*	6	5	4	3	2.5	2	2

(in order to determine the number of necessary destratification fans, add the air output of the heater to that of the destratification fan(s))

*) Source: ISSO publication 57

WWH-series

Winterwarm presents the WWH-series: LPHW heaters which, combined with any type of hot water system, can comfortably heat up any room.

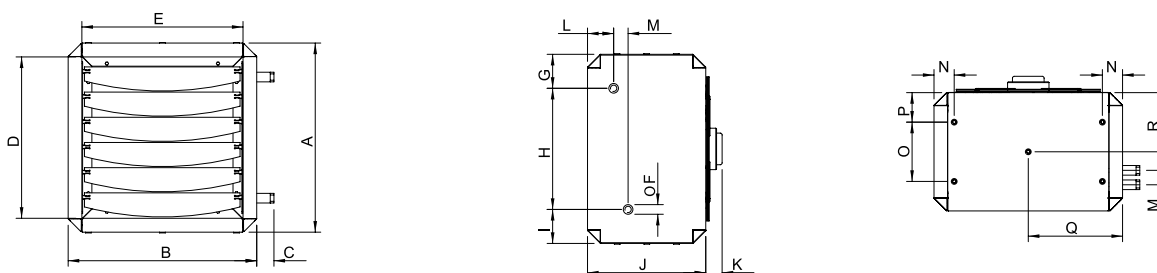
Characteristics WWH:

- good air circulation • comfortable temperature distribution • various air discharge possibilities • can be installed anywhere
- 9 capacities available • simple to control • long duration of life • 10 suspension points • IP54



Measurements

The range of 10-80 kW is subdivided in 3 models. The model of the heater is the first number of the type name (1,2 or 3).



Type	110	115	120	230	235	245	350	365	380
Model	1	1	1	2	2	2	3	3	3
A	510,5	510,5	510,5	692,5	692,5	692,5	863,5	863,5	863,5
B	509	509	509	693	693	693	864	864	864
C	46,5	46,5	44	34	34	42	33	33	34
D	435,5	435,5	435,5	585	585	585	756	756	756
E	435	435	435	585	585	585	756	756	756
F	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"
G	91,75	91,75	72,75	93,5	93,5	82,75	107,25	107,25	93,75
H	327	327	346	504,5	504,5	515,5	652	652	666,5
I	91,75	91,75	91,75	94,5	94,5	94,25	104,25	104,25	103,25
J	320	320	320	363	363	363	357,5	357,5	357,5
K	45	45	45	83	83	83	66,8	66,8	66,8
L	70	70	69	86	86	86	93	93	86,5
M	39	39	44	43,5	43,5	45	35	35	45,5
N	54,5	54,5	54,5	76,5	76,5	76,5	87	87	87
O	160	160	160	160	160	160	160	160	160
P	80	80	80	101	101	101	78	78	78
Q	254,5	254,5	254,5	346,5	346,5	346,5	432	432	432
R	160	160	160	181	181	181	158	158	158

Discharge possibilities



Technical data WWH-series

Type	Unit	110	115	120	230	235	245	350	365	380
Article no.		GI122LWW	GI122HWW	GI123HWW	GI162LWW	GI162HWW	GI163HWW	GI202LWW	GI202LWW	GI203LWW
Price	€	690	760	885	1065	1160	1345	1465	1580	1695
Maximum heat output*	kW	11.7	14.7	19.5	22.8	27.7	38.7	48.2	54.4	76.8
Air output (warm)	m³/h	1,400	2,200	1,900	2,600	3,850	3,450	6,600	8,450	7,600
Throw horizontal	m	10	14	12	19	22	19	20	25	21
Throw vertical	m	3.5	5	4	6	7	6	7	8	7
Voltage (50Hz)	V	230	230	230	230	230	230	230	230	230
Electrical power*	W	79	164	153	175	310	326	450	561	56
Electrical current*	A	0.3	0.7	0.7	0.8	1.4	1.4	2.0	2.4	2.5
Sound level (@ 5 meter)	dB(A)	50	59	58	51	61	60	62	58	56
Weight (incl. water)	kg	20	20	21	31	31	32	44	61	65
Water connection	G"	3/4	3/4	3/4	3/4	3/4	1	1	1	1
Watersided pressure loss	kPa	2	3	3	3	3	5	4	5	9
Minimum suspension height	m	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5

*) at water temperature 90/70° and room temperature 15°C

Accessories WWH-series

Description	110	115	120	230	235	245	350	365	380
Article no.	GA8595	GA8595	GA8595	GA8595	GA8595	GA8595	GA8595	GA8595	GA8595
1 Wall brackets	72	72	72	72	72	72	72	72	72
Article no.	GA8600	GA8600	GA8600	GA8600	GA8600	GA8600	GA8600	GA8600	GA8600
2 Ceiling suspension set	65	65	65	65	65	65	65	65	65
Article no.	GA8610	GA8610	GA8610	GA8620	GA8620	GA8620	-	-	-
3 Suspension brackets	169	169	169	188	188	188	-	-	-
Article no.	GA120WW-1	GA120WW-1	GA120WW-1	GA245WW-1	GA245WW-1	GA245WW-1	GA380WW-1	GA380WW-1	GA380WW-1
4 4-way down flow plenum	126	126	126	152	152	152	194	194	194
Article no.	GA120VS-1	GA120VS-1	GA120VS-1	GA245VS-1	GA245VS-1	GA245VS-1	GA380VS-1	GA380VS-1	GA380VS-1
Set vertical louvres	65/5 st.	65/5 st.	65/5 st.	90/6 st.	90/6 st.	90/6 st.	110/6 st.	110/6 st.	110/6 st.
Controls (more information on page 27)							article no.	price €	
5 Room thermostat 230 V-10 Amp.- on/off							IW3960	45	
6 Clock thermostat 230V, 5 Amp.							IW3959	288	
7 Connection thermostat							IH8500	42	
8 5-step switch 2.2 Amp.							IA8540	267	
8 5-step switch 3.5 Amp.							IA8542	273	
8 5-step switch 5.0 Amp.							IA8543	302	
8 5-step switch 8 Amp.							IA8544	401	
8 5-step switch 11 Amp.							IA8515	515	
8 5-step switch 15 Amp.							IA8516	835	
Zone valve, 230V, 3/4" (2-way)							GA3980	469	

Capacities @ various water temperatures

In situations with other water temperatures, one has to multiply the standard capacity of the unit with the value in the table below.

The WWH-range is not suitable for application with steam.

Water temperature	Air temperature inlet					
	0°C	5°C	10°C	15°C	18°C	20°C
90/70°C	1.30	1.19	1.10	1.00	0.94	0.91
80/60°C	1.11	1.01	0.91	0.82	0.76	0.73
70/50°C	0.92	0.82	0.73	0.64	0.56	0.55
60/40°C	0.73	0.64	0.54	0.45	0.40	0.37
50/30°C	0.54	0.45	0.37	0.27	0.22	0.18

WWH EC-series

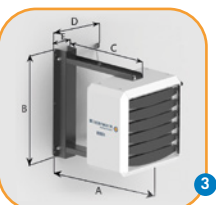
The Winterwarm WWH-EC air heaters are as standard provided with an EC-motor. Because of that electricity consumption drops as much as 25% as well as the sound level in comparison to the standard WWH heater. This heater is suitable for everybody with a normal heating boiler but who still wants an economical heating appliance with as less noise as possible.

Characteristics

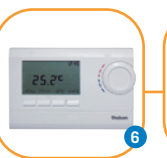
- good air circulation • EC motor as standard • stepless control • comfortable temperature distribution • various discharge possibilities
- suitable for different water temperatures • 7 capacities • 10 suspension points M10 • IP 54

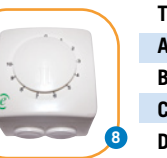




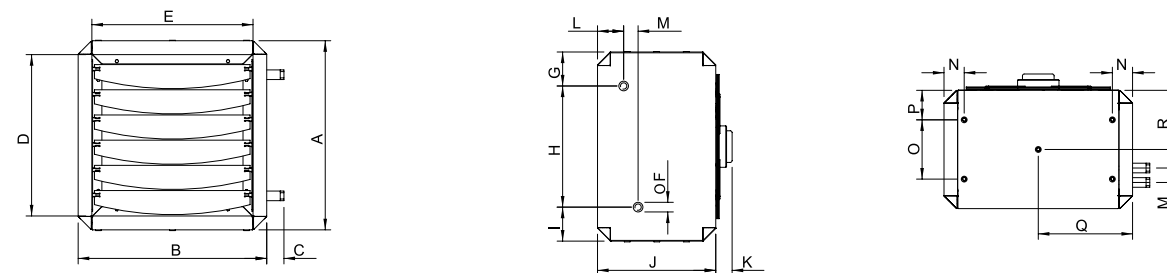
Type	1	2
A	711	846
B	640	814
C	583	694
D	391	392
E	148	150



Measurements

The range of 10-80 kW is subdivided in 3 models. The model of the heater is the first number of the type name (1,2 or 3).



Type	115	120	235	245	350	365	380
Model	1	1	2	2	3	3	3
A	510,5	510,5	692,5	692,5	863,5	863,5	863,5
B	509	509	693	693	864	864	864
C	46,5	44	34	42	33	33	34
D	435,5	435,5	585	585	756	756	756
E	435	435	585	585	756	756	756
F	3/4"	3/4"	3/4"	1"	1"	1"	1"
G	91,75	72,75	93,5	82,75	107,25	107,25	93,75
H	327	346	504,5	515,5	652	652	666,5
I	91,75	91,75	94,5	94,25	104,25	104,25	103,25
J	320	320	363	363	357,5	357,5	357,5
K	45	45	83	83	66,8	66,8	66,8
L	70	69	86	86	93	93	86,5
M	39	44	43,5	45	35	35	45,5
N	54,5	54,5	76,5	76,5	87	87	87
O	160	160	160	160	160	160	160
P	80	80	101	101	78	78	78
Q	254,5	254,5	346,5	346,5	432	432	432
R	160	160	181	181	158	158	158

Discharge possibilities



Technical data WWH EC-series

Type	Unit	115EC	120EC	235EC	245EC	350EC	365EC	380EC
Article no.		GI122HWWEC	GI123HWWEC	GI162HWWEC	GI163HWWEC	GI202LWWEC	GI202LWWEC	GI203LWWEC
Price	€	1000	1160	1690	1960	2125	2690	2875
Maximum heat output*	kW	14.7	19.7	27.8	38.7	46.4	54.4	76.8
Air output (warm)	m³/h	2,200	1,950	3,900	3,500	6,150	8,500	7,600
Throw horizontal	m	16	14	22	19	21	25	21
Throw vertical	m	5	5	7	6	7	8	7
Voltage (50Hz)	V	230	230	230	230	230	230	230
Electrical power	W	111	123	200	250	320	400	308
Electrical current	A	1.0	1.1	0.9	1.1	1.5	1.8	1.4
Sound level (@ 5 meter)	dB(A)	35-54	35-54	35-59	35-57	35-60	35-56	35-54
Weight (incl. water)	kg	20	21	31	32	44	61	65
Water volume	ltr	0.6	0.9	1.4	1.7	2.2	2.2	2.6
Waterconnection (male thread)	G"	3/4	3/4	3/4	1	1	1	1
Watersided pressure loss	kPa	3	3	4	6	4	7	9
Minimum suspension height	m	2.5	2.5	2.5	2.5	2.5	2.5	2.5

*) at water temperature 90/70° and room temperature 15°C

Accessories WWH EC-series

	Description	115EC	120EC	235EC	245EC	350EC	365EC	380EC
1	Article no.	GA8595	GA8595	GA8595	GA8595	GA8595	GA8595	GA8595
	Wall brackets	72	72	72	72	72	72	72
2	Article no.	GA8600	GA8600	GA8600	GA8600	GA8600	GA8600	GA8600
	Ceiling suspension set	65	65	65	65	65	65	65
3	Article no.	GA8610	GA8610	GA8620	GA8620	-	-	-
	Suspension brackets	169	169	188	188	-	-	-
4	Article no.	GA120WW-1	GA120WW-1	GA245WW-1	GA245WW-1	GA380WW-1	GA380WW-1	GA380WW-1
	4-way down flow plenum	126	126	152	152	194	194	194
	Article no.	GA120VS-1	GA120VS-1	GA245VS-1	GA245VS-1	GA380VS-1	GA380VS-1	GA380VS-1
	Set vertical louvres	65/5 st.	65/5 st.	90/6 st.	90/6 st.	110/6 st.	110/6 st.	110/6 st.
Controls (more information on page 27)							article no.	price €
5	Room thermostat for EC-control, 230 V.						IW3961	45
6	Clock thermostat 230V, 5 Amp.						IW3959	288
7	Connection thermostat						IH8500	42
8	Stepless speed controller 0-10V						GA3955	92
	Zone valve, 230V, 3/4" (2-way)						GA3980	469

Capacities @ various water temperatures

In situations with other water temperatures, one has to multiply the standard capacity of the unit with the value in the table below.

The WWH-range is not suitable for application with steam.

Water temperature	Air temperature inlet					
	0°C	5°C	10°C	15°C	18°C	20°C
90/70°C	1.30	1.19	1.10	1.00	0.94	0.91
80/60°C	1.11	1.01	0.91	0.82	0.76	0.73
70/50°C	0.92	0.82	0.73	0.64	0.56	0.55
60/40°C	0.73	0.64	0.54	0.45	0.40	0.37
50/30°C	0.54	0.45	0.37	0.27	0.22	0.18

WWH LT-series

The WWH-LT water heaters are especially designed for heating with low water temperatures like in combination with a heat pump or district heating network. The special heatexchanger and improved air flow realize optimal heat outputs with low water temperatures. The WWH-LT can also be used for cooling provided that the heat pump is suitable for that application.

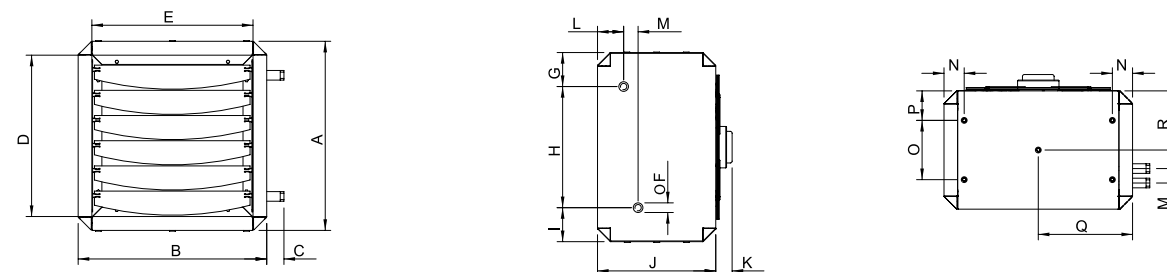
Characteristics

- low temperature heating • good air circulation • EC motor as standard • low electricity consumption • stepless control • 4 capacities
- comfortable temperature distribution • various discharge possibilities (when also applied for cooling: only horizontal) • can be used for cooling • integrated condensate collection box • 8 suspension points M10 • IP 54

Type	1	2
A	711	846
B	640	814
C	583	694
D	391	392
E	148	150

Measurements

The range of 10-80 kW is subdivided in 3 models. The model of the heater is the first number of the type name (1,2 or 3).



Type	model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
110 LT	1	510,5	508	46,5	435,5	435	3/4"	102,75	330	77,75	320	45	124	60,5	54,5	160	80	254,5	160
220 LT	2	692,5	693	35,0	585	585	1"	111,25	495	86,25	363	83	142	60,0	76,5	160	95,5	364,5	175,5
330 LT	3	863,5	864	28,5	756	756	1"	121,5	647	95	357	65,5	144	65,5	87	160	78	432	158
340 LT	3	863,5	864	28,5	756	756	1"	121,5	647	95	357	65,5	144	65,5	87	160	78	432	158

Type	110 LT	220 LT	330 LT	340 LT
A	37,75	40,75	51,75	51,75
B	190	214	208,75	208,75
C	19	19	19	19
D	23,75	20,25	24,25	24,25
E	42,5	42,5	42,5	42,5

Discharge possibilities

standard grill

4-way downflow plenum (do not apply in situation with cooling)

vertical louvres

condensate discharge

condensate discharge

Technical data WWH LT-series

Type	Unit	110LT	220LT	330LT	340LT
Article no.		GI125BWWEC	GI250BWWEC	GI390BWWEC	GI395BWWEC
Price	€	1470	1965	2825	3440
Heat output* at 45°/35°	kW	8.3	19.4	28.6	37.9
Cooling capacity** at 7°/12°	kW	6.6	16.5	19.2	32.1
Cooling capacity** at 15°/18°	kW	3.8	8.8	12.8	17.8
Cooling capacity** at 16°/19°	kW	3.4	7.9	11.7	16.1
Air output	m³/h	1,850	4,150	5,450	8,850
Throw horizontal (warm)	m	14	21	20	25
Throw vertical (warm)	m	5	7	7	8
Voltage (50Hz)	V	230	230	230	230
Elektrical power	W	118	515	320	718
Electrical current	A	1.1	2.3	1.5	3.2
Sound level (@ 5 meter)	dB(A)	35-54	35-64	35-60	35-62
Weight (incl. water)	kg	22	34	66	68
Water volume	ltr	2.0	3.9	6.6	6.6
Water connection (male thread)	G"	3/4	1	1	1
Watersided pressure loss	kPa	4	11	30	30
Minimum suspension height	m	2.5	2.5	2.5	2.5

*) at room temperature 15°C

**) at room temperature 28°C and rh 50%

Accessories WWH LT-series

Description	110LT	220LT	330LT	340LT
1 Article no.	GA8595	GA8595	GA8595	GA8595
Wall brackets	72	72	72	72
2 Article no.	GA8600	GA8600	GA8600	GA8600
Ceiling suspension set	65	65	65	65
3 Article no.	GA8610	GA8620	-	-
Suspension brackets	169	188	-	-
4 Article no.	GA120WW-1	GA245WW-1	GA380WW-1	GA380WW-1
4-way down flow plenum (do not apply in situation with cooling)	126	152	194	194
Article no.	GA120VS-1	GA245VS-1	GA380VS-1	GA380VS-1
Set vertical louvres	65/5 st.	90/6 st.	110/6 st.	110/6 st.
Controls (more information on page 27)			article no.	price €
5 Room thermostat for EC-control, 230 V.			IW3961	45
6 Clock thermostat 230V, 5 Amp.			IW3959	288
7 Room thermostat for heating and cooling, 230 V, 10 Amp. max.			IW3963	97
8 Connection thermostat			IH8500	42
9 Stepless speed controller 0-10V			GA3955	92
Zone valve, 230V, 3/4" (2-way)			GA3980	469
Condensate pump set incl. sifon adapter, hose connector, hose to waste soil pipe, and 6 m. hose for condensate discharge*			GX8002	305
Hose for condensate discharge 30m., ø10mm			IK5785	54

*) siphon not included

Capacities @ various water temperatures

In situations with other water temperatures, one has to multiply the standard capacity of the unit with the value in the table below.

The WWH-range is not suitable for application with steam.

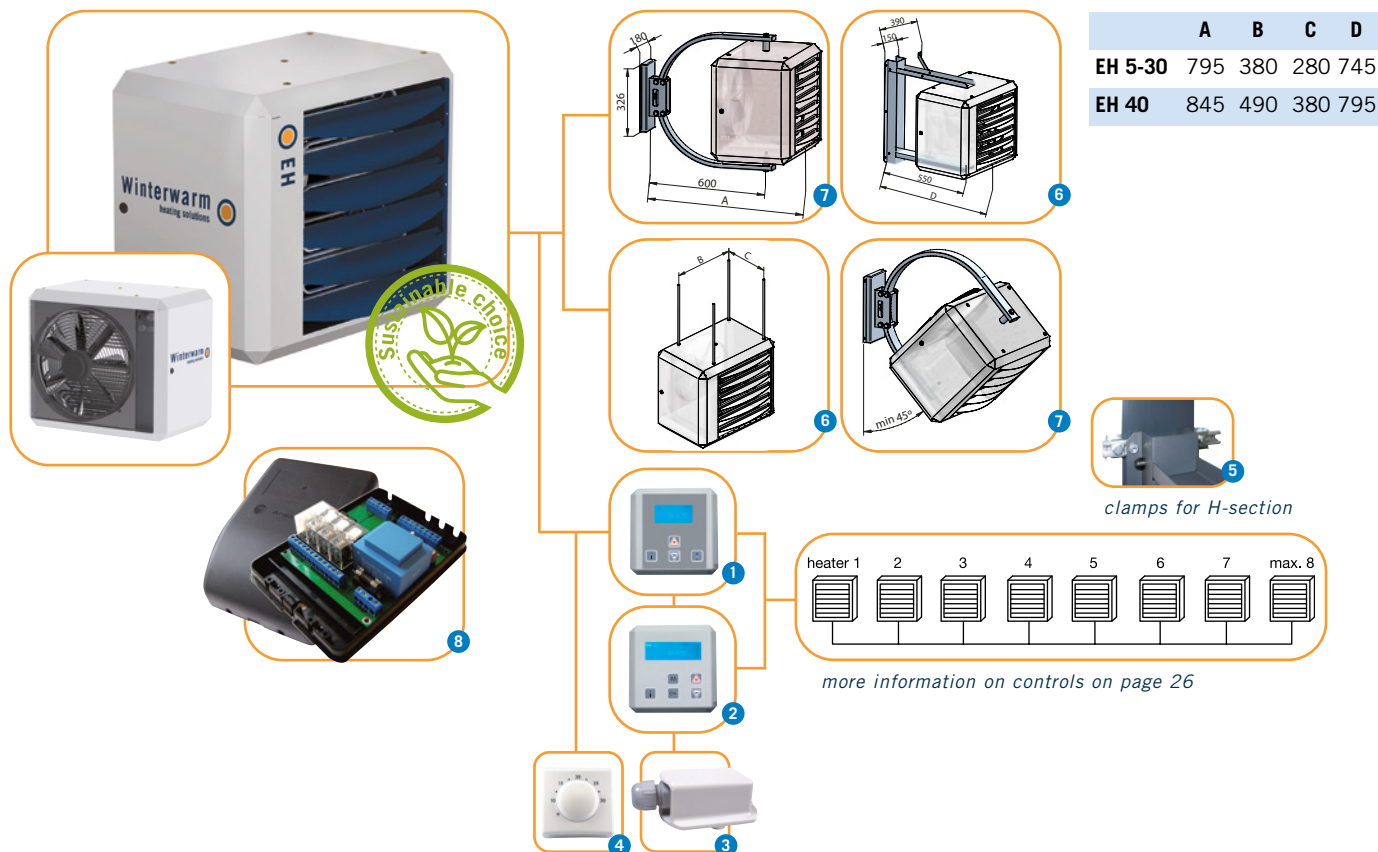
Water temperature	Air temperature inlet					
	0°C	5°C	10°C	15°C	18°C	20°C
35/30°C	1,41	1,18	0,95	0,72	0,58	0,49
45/35°C	1,76	1,51	1,25	1,00	0,81	0,74
45/40°C	1,88	1,64	1,41	1,18	1,04	0,95
50/30°C	1,56	1,30	1,07	0,78	0,64	0,52
60/40°C	2,11	1,85	1,56	1,30	1,16	1,07
70/50°C	2,66	2,37	2,11	1,85	1,62	1,59

Winterwarm EH-series

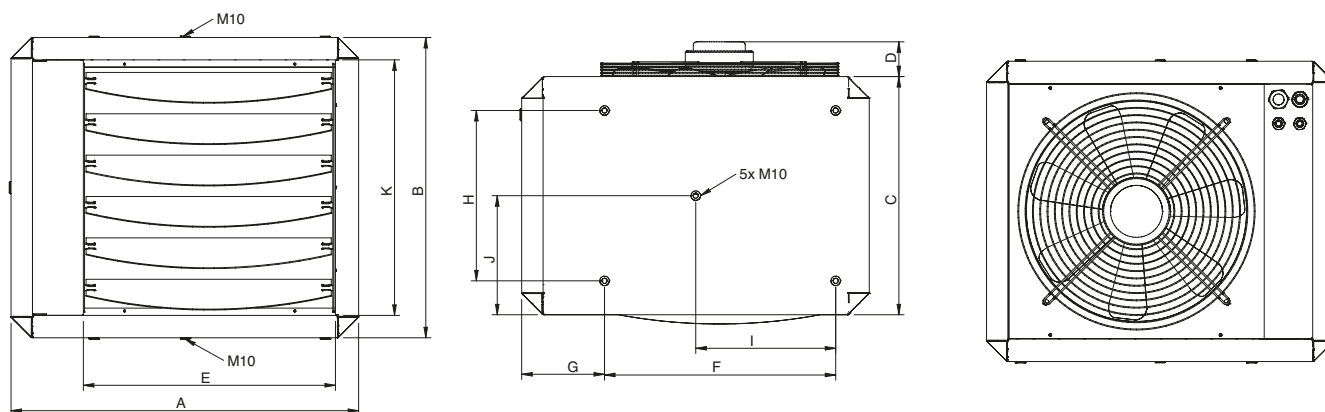
Winterwarm presents the EH-series: an electric air heater for those situations where no gas is available or for other reason an electrical heating appliance is preferred.

Characteristics

- Compact and low weight
- tubular heat exchanger
- sustainable heating solution in combination with solar panels
- variable heating capacity
- 7 capacities
- delta T-control
- control of 1-8 heaters with 1 thermostat
- optional: control by 0-10 V or by modbus
- heater can be tilted (to 45°)
- protection rate IP00B
- simple installation



Measurements



Type	A	B	C	D	E	F	G	H	I	J	K
EH 5-30	570	490	390	125	420	380	140	280	230	195	420
EH 40	650	490	530	125	490	na	na	na	325	245	420

Technical data EH-series

Type	Unit	EH 5	EH 10	EH 15	EH 20	EH 25	EH 30	EH 40
Article no.		GE05A0WW	GE10A0WW	GE15A0WW	GE20A0WW	E25A0WW	GE30A0WW	GE40A0WW
Price	€	1015	1315	1550	1655	1965	2185	2475
Heating capacity high	kW	5.0	9.9	15.0	19.8	24.9	29.7	39.6
Heating capacity low	kW	2.5	3.3	7.5	9.9	9.9	9.9	19.8
Electrical connection	kW	5.2	10.1	15.2	20.0	25.1	29.9	39.8
Maximum electrical current per phase high	A	11.9	15.5	22.9	31.0	37.2	44.2	59.0
Maximum electrical current one phase*	A	22.6	44	n/a	n/a	n/a	n/a	n/a
Maximum air output (warm)	m ³ /h	3,100	3,100	3,100	3,100	3,000	3,000	4,400
Throw	m	23	23	23	23	22	22	28
Voltage (50 Hz)*	V	400V+N	400V+N	400V+N	400V+N	400V+N	400V+N	400V+N
Weight	kg	25	25	26	26	28	30	34
Sound level (@ 5m), range	dB(A)	55-58	55-58	55-58	55-58	55-58	55-58	57-60
Min. suspension heigth horizontal throw	m	1.8	1.8	1.8	1.8	1.8	1.8	1.8

*EH 5 and EH 10 are also suitable for 1-phase connection

Accessories EH-series

	Controls (more information on page 26)	applicable on	article no.	price €
1	MultiTherm S thermostat for 1-8 unit air heaters with external enable/disable option	EH5-40	IX3911	163
2	MultiTherm C clock thermostat for 1-8 unit air heaters	EH5-40	IX3912	314
3	Remote sensor, optional with MTC	EH5-40	GA3929	122
8	Interface board for connection to a BMS (max. 8 heaters)	EH5-40	IB5902	314
	MTS with extra input relay	EH5-40	GX3955	221
	MTC with extra input relay	EH5-40	GX3956	386
4	Room thermostat on/off 230V, 10 Amp., IP30	EH5-40	IW3960	45
	Modbus control set	EH5-40	GA5903	66
	0-10 V. input control set	EH5-40	GA5906	66
	Power isolation switch, 230 V - 400 V, 25 Amp.	EH5-40	IK5281	70
	Power isolation switch 400V , 63 Amp.	EH5-EH40	IE5210	170
	Suspension			
6	Suspension brackets	EH5-40	GA8610	169
5	Clamps for H-section	EH5-40	GA8680	122
7	Design suspension	EH5-40	GA8630	260
	Set vertical louvres (4 pcs)	EH5-40	GX2002	109

Controls for air heaters

Winterwarm provides an extensive program of controls which guarantee optimal operation of their heaters.



MultiTherm S



MultiTherm C



remote sensor

MultiTherm thermostat

IX3911 € 163

IX3912 € 314

Functions	MultiTherm S	MultiTherm C
Clock function	no	yes
10 programmable time blocks	no	yes
Overtime program	no	yes
Summer/winter time	no	yes
Lets heater modulate on room temperature	yes	yes
Summer ventilation	yes	yes
Compensation for wall influence	yes	yes
Intelligent (self optimizing) thermostat	no	yes
Keyboard locking (incl. pincode)	no	yes
Frost protection	yes	yes
Failure diagnosis and reset per heater	yes	yes
Low voltage current (24V.)	yes	yes
Controls up to 8 heaters	yes	yes
Temperature range 0 - 30°C	yes	yes
Remote sensor possible (GA3929)	no	yes
Enable/disable function via external switch (e.g. PIR, door switch)	yes	no
IP20	yes	yes

Interface board

for connection to a building management system

IB5902 € 314



- Controls up to 8 heaters
- Entrance for low-stage
- Reset function
- Failure diagnosis
- 0-10 analogue input (reacts between 2 -10V)
- Connection for high-stage
- Summer ventilation



Power isolation switch

IK5281 € 70

- Necessary with each heater to be able to switch off the current during maintenance activities
- IP65
- 230V - 400V
- 25 Amp
- 4 poles



On/off thermostat

IP794209 € 159

- Water resistant to IP65
- Temperature range -20°C-40°C
- on/off thermostat
- 230 V.
- 6 Amp.



MTS with extra input relay

GX3955 € 221

- 24 V. switch contact
- to interrupt heat demand with an external signal



MTC with extra input relay

GX3956 € 405

- 24 V. switch contact
- connection to external clock possible
- to interrupt heat demand with an external signal
- extra control between day and night

Thermostats and switches

For destratification fans and water heaters



Room thermostat

IW3960/IW3961 € 45

Simple room thermostat to control WWH. Can also be used to control the Rendovent on the room temperature.

- Temperature range 15°C - 30°C
- IP30
- 230V.
- IW3960 for heaters with AC-motor, switching range 200mA-10A
- IW3961 for heaters with EC-motor, switching range 10mA-200mA



Clockthermostat

IW3959 € 288

- Temperature range 4°C - 30°C
- 230 V
- IP20
- Switches max. 5 Amp.
- Excl. 2x 1.5 V. AA battery
- Week program



Room thermostat for heating and cooling

IW3963 € 97

- Temperature range 5° - 30°C
- 230 V
- IP30
- switching range 10mA-10A
- Switch for heating/cooling



Connection thermostat

IH8500 € 42

Thermostat which has to be placed on the water supply pipe to the WWH; Prevents the heater blowing cold air.

- Temperature range 20°C - 90°C
- IP30
- 230 V
- Max. 2.5 Amp.



Stepless speed controller 0-10V

GA3955 € 92

Applicable on all heaters provided with an EC fan motor (WWH-EC/LT, ACM-EC, WCU-EC). With this contolter the air volume can be stepless adjusted..

- IP44
- 20 mA
- Controls up to 8 heaters



5-step switch
IA8540-42-43-44



5-step switch
IA8515-16

5-step switches

Applicable on both WWH air heaters and WCU destratification fans to reduce the revolutions per minute. Waterresistant (IP44). Switches can control more than one device (add power consumptions to determine necessary Amps.)

	article no.	price €
• 5-step switch - 2,2 Amp.	IA8540	267
• 5-step switch - 3,5 Amp.	IA8542	273
• 5-step switch - 5,0 Amp.	IA8543	302
• 5-step switch - 8,0 Amp.	IA8544	401
• 5-step switch - 11 Amp.	IA8515	515
• 5-step switch - 15 Amp.	IA8516	835



Stepless switch

IA8509 € 147

Suitable for application for 1-7 Rendovent fans

- IP 54
- 0.5 - 3 Amp.



Stepless switch

IA3917 € 582

Suitable for application with 2-12 Rendovent fans; switches the Rendovent based on the measured room temperature of the sensor.

- control range 3°C
- 230V
- 0.2 - 6 Amp.

Winterwarm DX-EH heater

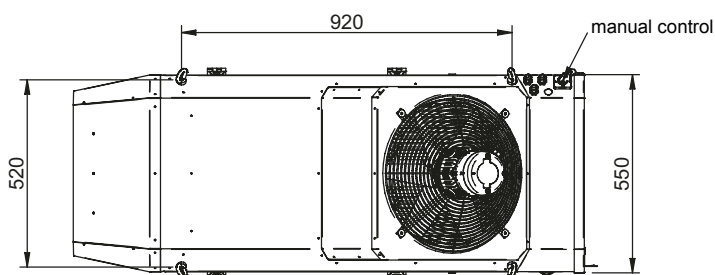
The DX-EH is an electric air heater specifically designed for sustainable heating of poultry houses and pig stables. By installing these heaters one profits the most from the power generation by solar panels or a windmill. Besides that the health of the animals improves because the humidity level in the stable remains relatively low and is well controllable.

Characteristics

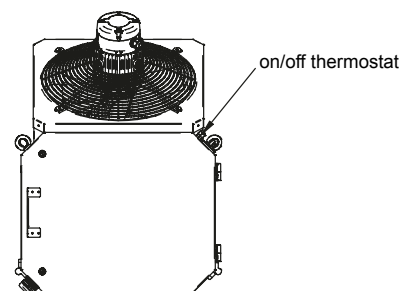
- 100% efficiency • SS casing and heat exchanger • sustainable heating method • low noise level • no CO₂ in the stable • relatively low ammonia emission • splash waterproof IPX4D  • summer ventilation • approved • simple maintenance • 4x suspension points
- on/off as standard • optional: 0-10V control • optional: modbus control • optional: high/low operation



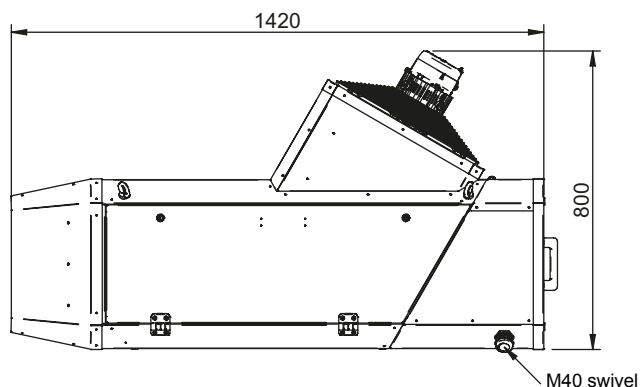
Measurements



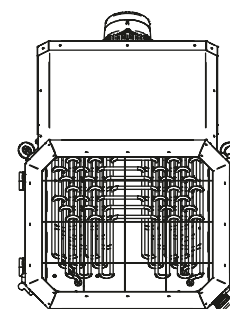
top view



front view



side view



rear view

Technical data DX-EH heater

Type	Unit	DX-EH 40
Article no.		PEC40A0WW
Price	€	3750
Heating capacity high	kW	39,6
Heating capacity low	kW	19,8
Electrical connection	kW	40
Maximum electrical current per phase	A	59.0
Maximum air output (warm)	m ³ /h	3500
Horizontal throw (max)	m	40
Voltage (50 Hz)	V	400V+N
Length	mm	1400
Width	mm	550
Height	mm	795
Weight	kg	65
Sound level (@ 5 meter)	dB(A)	62
Supension/installation		suspended on thread or placed on a support

Accessories DX-EH

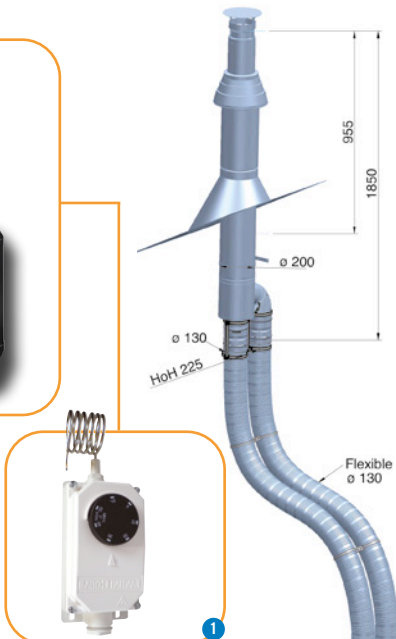
	Description	article no.	price €
1	On/off thermostat -20°C / +40°C, splashproof	IP794209	159
2	Remote status reader	GD3202	349
3	Interface board for modulating burner control	IB5902	314
	Modbus control set	GA5903	66
	0-10 V. input control set	GA5906	66
	Set for external alarm signal	GA4009	26
	Set for external alarm signal and reset	GA4012	123
	Power isolation switch 400V, 63 Amp.	IE5210	170
	Suspension kit (incl. 3m. chain + 4 carabiner)	GA8573	98

Winterwarm DXC series

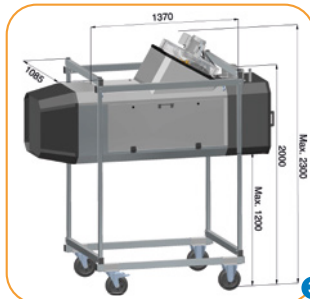
The DXC is an indirect fired gasheater with a closed combustion circuit especially developed for application in poultry houses. Consequence is that all CO₂ remains outside the house. Therefore, considerably less heating capacity is necessary to maintain the necessary room temperature, thus energy costs can be reduced considerably.

Characteristics

- SS-steel casing • robust stainless steel tubular heatexchanger • closed combustion system • flexible flue material • no CO₂ in the house = less ventilation needed = lower energy consumption = lower costs • energy savings up to 25% possible • reliable technology • CE-approved
- easy to service • standard on/off • optional: 0-10V input • optional: reduced heatput • optional: high/low burnercontrol • easy to clean (IPX4D) ⚠

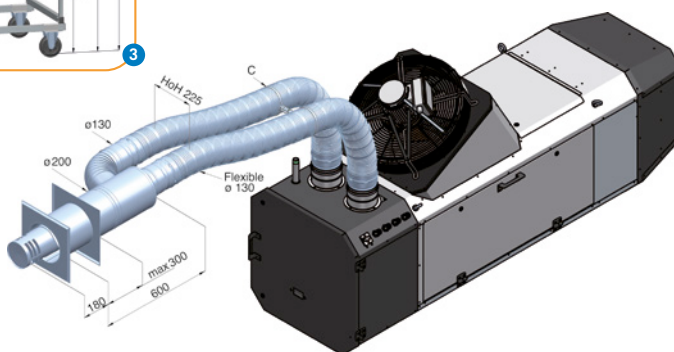
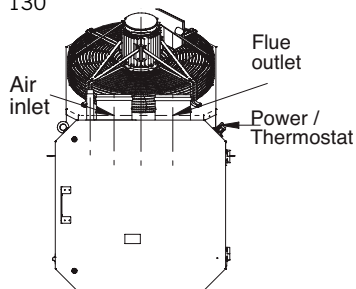
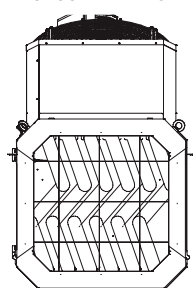


- Interface board for modulating burner control
- 0 - 10 V. analogue input (reacts between 2-10 V)
 - Entrance burner on/off
 - Entrance ventilation on/off
 - Reset function
 - Output failure signal
 - Output "in operation" signal



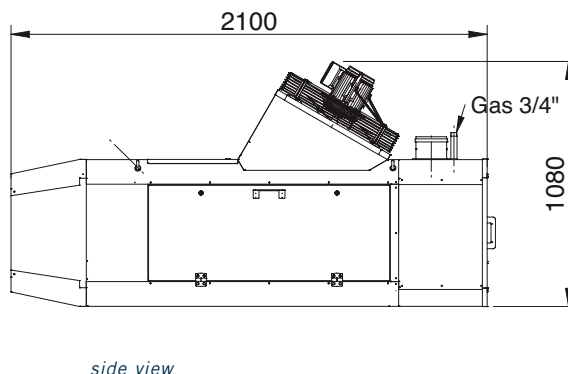
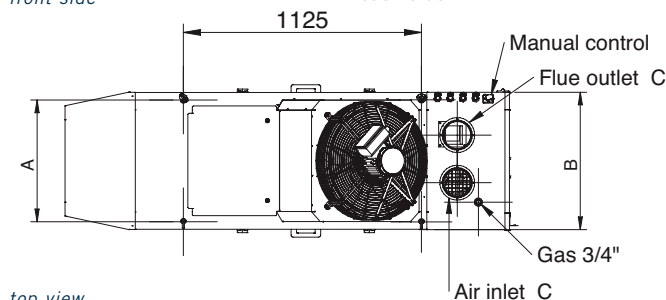
Measurements

Type	A	B	C
DXC60/80	575	650	130
DXC100	740	815	130



front side

back side



Technical data DXC-series

Type	Unit	DXC 60	DXC 80	DXC 100
Price	€	4980	5725	6870
Nominal heat input max. (h.i.)	W	65.5	83.0	108.0
Maximum heat output	kW	60	76	99
Efficiency max. power	%	91.5	91.5	91.5
Air output (warm)	m ³ /h	6,000	8,000	10,000
Throw	m	40	45	45
Voltage (50Hz)	V	230	230	230
Electrical power	W	800	900	1400
Electrical current	A	3.5	3.9	6.1
Gas consumption natural gas (G25)	m ³ /h	7.8	9.9	12.8
Gas consumption natural gas (G20)	m ³ /h	6.9	8.8	11.4
Gas consumption propane (G31)	kg/h	5.2	6.6	8.6
Sound level	dB(A)	68	68	68
Weight	kg	140	150	175
Flue connection	mm	130	130	130
Gas connection	G"	3/4	3/4	3/4

Accessories DXC-series

	Description	article no.	price €
1	On/off thermostat, -20°C - +40°C, splashproof	IP794209	159
	Remote status reader	GD3202	349
2	Interface board for modulating burner control	IB5902	314
3	Mobile heater stand	GD5000	920
	Suspension kit (incl. 4 m. chain + 8 carabiner)	GA8574	110
	Service parts box for DXC 60-80-100 (excl. fans) - version 4	GA4004-1	1327
	Service set with system fan and flue fan for DXC 60-80	GA4004-2	797
	Service set with system fan and flue fan for DXC100	GA4004-3	932
	Modbus control set	GA5903	66
	0-10 V. input control set	GA5906	66
	Set for external alarm signal	GA4009	26
	Set for external alarm signal and reset	GA4012	123
	Reduced heat output set	GD3910	128
	Flue material (for extra flue material see page 13)	article no.	price €
	Roof terminal DDV 130/200	IA8305	464
	Wall terminal CT 130/200	IA8312	305
	Flue mounting kit (incl. 2 male & 2 female adapters, 2 safety clamps, silicone kit) (Obligatory with each pipe set)	GA8350	293
	Flexible pipe set 1 m. ø 130	GA8310	132
	Flexible pipe set 2 m. ø 130 (incl. 1 spacer bracket)	GA8315	225
	Flexible pipe set 3 m. ø 130 (incl. 2 spacer brackets)	GA8320	320
	Flexible pipe set 4 m. ø 130 (incl. 3 spacer brackets)	GA8325	392
	Flexible pipe set 5 m. ø 130 (incl. 4 spacer brackets)	GA8330	489
	90° Elbow set, ø 130	GA8355	80
	Concentric extension pipe (indoor) 130/200, 500mm	IA8313	145
	Concentric extension pipe (outdoor) 130/200, 1000mm	IA8411	251
	Gas connection set 3/4" natural gas		
	Gas hose 3/4" L 2000mm - not CE approved - incl. nipples	IP694128	137
	Gas hose 3/4" L 2000mm - CE approved - incl. nipples	IP779055	338
	Gas pressure regulator set natural gas- incl. nipples - inlet pressure max.200mbar, 27mbar outlet pressure	GD4004	142
	Gasball valve+ filter set 3/4" - incl. nipples	GD4000	129
	Gas connection set 3/4" propane		
	Gas hose 3/4" L 2000mm not-CE approved - incl. nipples	IP694128	137
	Gas hose 3/4" L 2000mm - CE approved - incl. nipples	IP779055	338
	Gas pressure regulator set propane - incl. nipples - inlet pressure max. 1,75 bar, 50mbar outlet pressure	GD4006	172
	Gasball valve+ filter set 3/4" - incl. nipples	GD4000	129
	Gas connection set 1" natural gas		
	Gas hose 1" L 2000mm - not CE approved - incl. nipples	IP694133	181
	Gas hose 1" L 2000mm - CE approved - incl. nipples	IP779065	471
	Gas pressure regulator set natural gas- incl. nipples - inlet pressure max.200mbar, 27mbar outlet pressure	GD4004	142
	Gasball valve+ filter set 1" - incl. nipples	GD4002	181
	Gas connection set 1" propane		
	Gas hose 1" L 2000mm - not CE approved - incl. nipples	IP694133	181
	Gas hose 1" L 2000mm - CE approved - incl. nipples	IP779065	471
	Gas pressure regulator set propane - incl. nipples - inlet pressure max. 1,75 bar, 50mbar outlet pressure	GD4006	172
	Gasball valve + filter set 1" - incl. nipples	GD4002	181

Winterwarm DXE series

Winterwarm presents the DXE series. This unique heating concept for poultry houses is situated in the external wall. The air to be heated is circulated through the heater via an air inlet on one side and blown out of the heater into the house again on the other side of the heater. Due to the positioning of the heater the combustion gases are exhausted to the outside and never enter the house. Advantages: considerable energy savings can be made as less ventilation is required, a lower humidity level, easy access is ensured and bio-security is enhanced as the control and combustion components are outside the house.

Characteristics

- installation outside the poultry house
- insulated splashproof casing in neutral green colour
- robust stainless steel tubular heatexchanger
- high air output
- 100% recirculation of return air
- no combustion flue necessary
- no CO₂ in the house
- energy savings up to 20% possible
- 0-10V control possible
- CE approved
- easy to service
- standard on/off
- optional: 0-10V input
- optional: reduced heatput
- optional: high/low burnercontrol
- wall flanges and 2 adjustable legs are delivered with the heater
- easy to clean (IPX4D) 



remote status reader



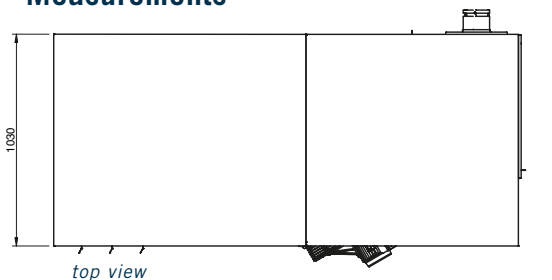
Interface board for

modulating burner control

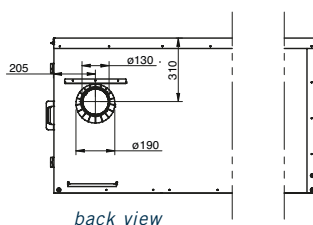
- 0 - 10 V. analogue input (reacts between 2-10 V)
- Entrance burner on/off
- Entrance ventilation on/off
- Reset function
- Output failure signal
- Output "in operation" signal



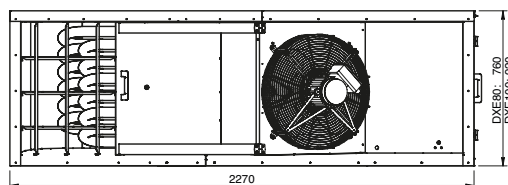
Measurements



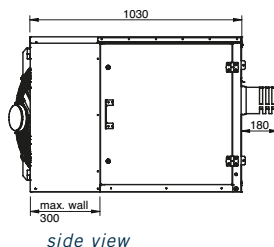
top view



back view



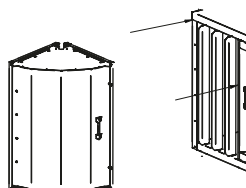
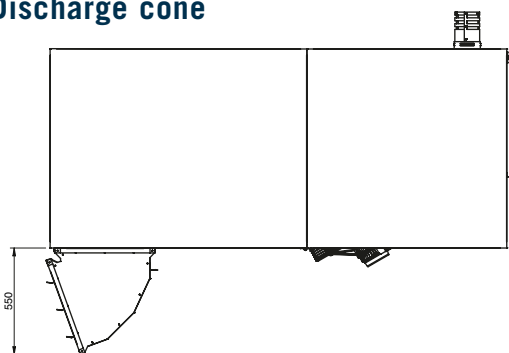
front view



side view



Discharge cone



Technical data DXE

Type	Unit	DXE 80	DXE100
Price*	€	6760	8185
Nominal heat input	kW	83	108
Nominal heat output	kW	76	99.1
Efficiency maximum power	%	91.5	91.8
Air output	m ³ /h	8,000	10,000
Throw	m	45	50
Electrical power	W	900	1,400
Electrical current	A	3.9	6.1
Electrical connection	V	230	230
Maximum gas consumption G20	m ³ /h	8.8	11.4
Maximum gas consumption G31	kg/h	6.6	8.6
Gas connection	G"	3/4	3/4
Weight	kg	150	175
Protection degree		IPX4B	IPX4B

*) including wall flanges and 2 adjustable legs

Accessories DXE-series

	Description	article no.	price €
1	On/off thermostat, -20°C - +40°C, splashproof	IP794209	159
2	Remote status reader	GD3202	349
3	Interface board for modulating burner control	IB5902	314
	Modbus controlset	GA5903	66
	0-10V. input control set	GA5906	66
	Set for external alarm signal	GA4009	26
	Set for external alarm signal and reset	GA4012	123
	Discharge cone DXE 80	GD4308	468
	Discharge cone DXE 100	GD4310	550
	Service parts box for DXE 60-80-100 (excl. fans) - version 4	GA4004-1	1327
	Service set with system fan and flue fan for DXE 60-80	GA4004-2	797
	Service set with system fan and flue fan for DXE100	GA4004-3	932
	Combustion flue exit 130 for DXE	IA8354A	61

DX fan

The DX fan aims to realize an optimum distribution of the warm air in the poultry house or the glass house. Plant and animal grow better in environments with a constant temperature. Second feature is that the efficiency of the consumed energy increases, and as a consequence the total energy consumption decreases, so applying fans is cost saving.

Characteristics DXF

- high air output (5000m³) • energy-saving • robust SS-body
- light and easy to install • smaller measurements (air inlet opening ø460) • IP55 • grills included



	Unit	DX fan
Article no.		PDF5000
Price	€	475
Diameter outlet side	mm	460
intake side	mm	460
Body length	mm	300
Air output	m ³ /h	5,000
Throw (max.)	m	30
Mains voltage	V	230
	Hz	50/60
Electrical power	W	290
Electrical current	A	1.3
Sound level (@ 4 meter)	dB(A)	68
Protection degree		IP55

Winterwarm DXA/B-heaters

The DX-heaters are direct fired heaters for gas and oil, especially designed by Winterwarm for the agricultural and horticultural market. The heaters are of a robust design, completely manufactured from stainless steel for a durable and efficient operation, based on a well-known concept.

Characteristics:

- body from stainless steel • DXA= gasfired • DXB= oilfired • available for gas and oil • reliable • 1 automatic restart • hourly self-check • possibility for ventilation position • high air output • 100% efficiency • CE-approved (DXA) • possibility to connect 8 heaters to 1 thermostat • easy to clean (IPX4B) ⚠



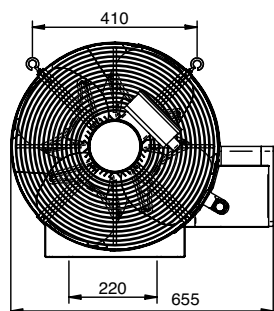
- Interface board for 1-8 heaters
- 0 - 10 V. analogue input (reacts between 2-10 V)
 - Entrance burner on/off
 - Entrance ventilation on/off
 - Reset function
 - Output failure signal
 - Output "in operation" signal



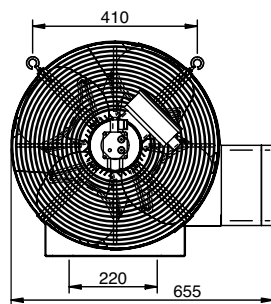
remote status reader



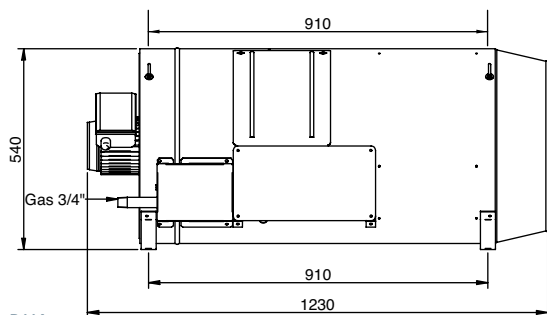
Measurements



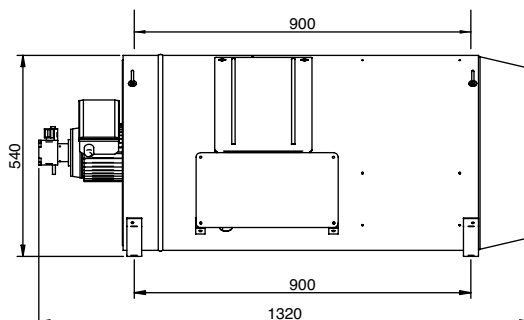
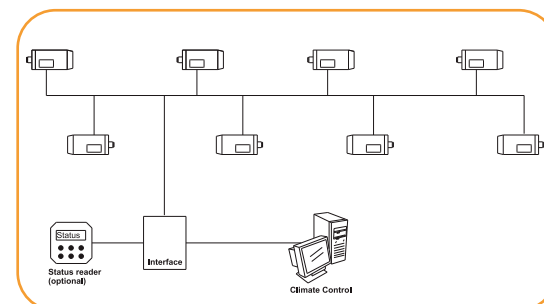
DXA



DXB



DXA



DXB

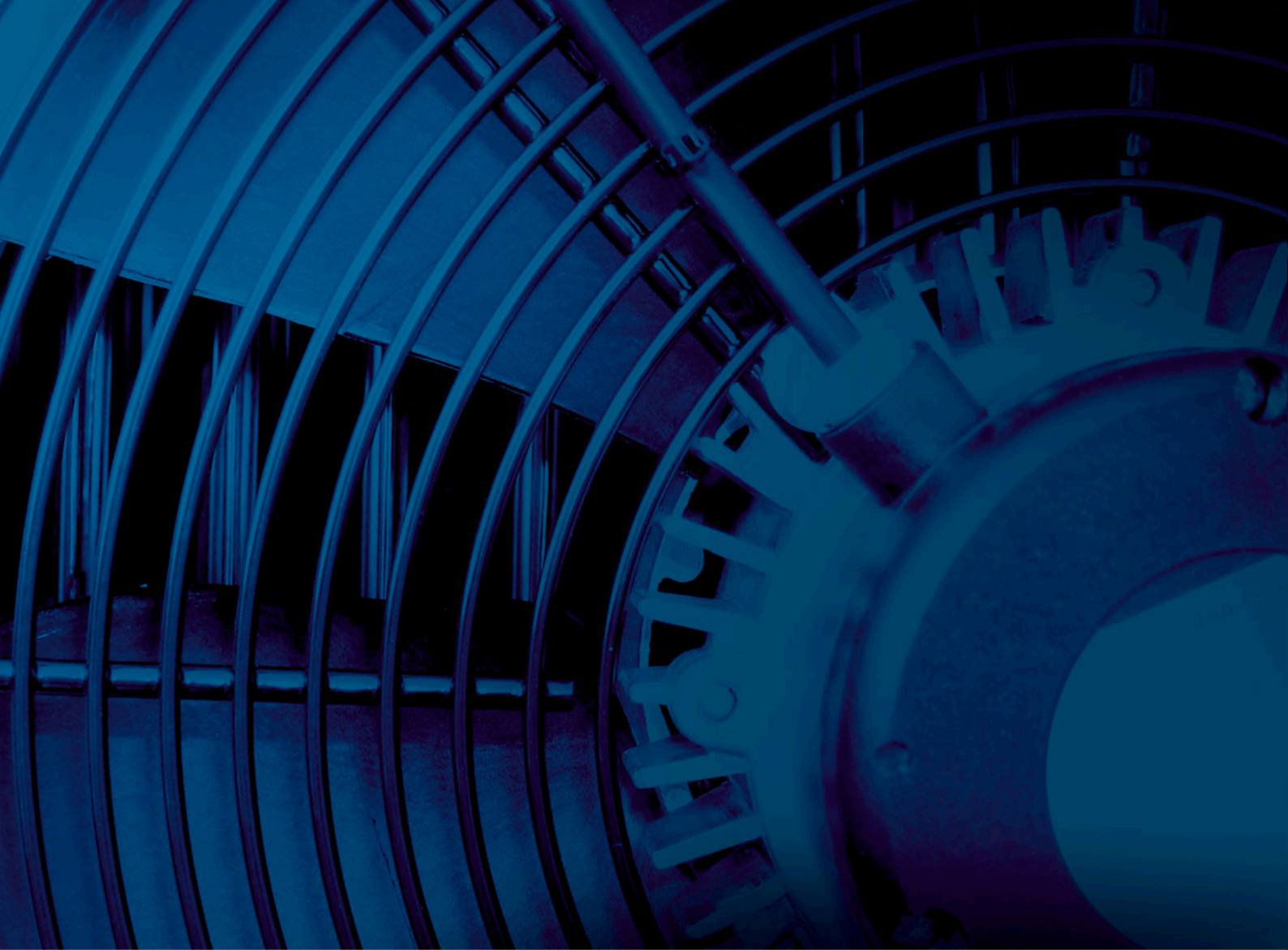
Technical data DXA/B-series

Type	Unit	DXA 75	DXA 100	DXA 120	DXB 100	DXB 120
Price	€	2475	2795	3100	2645	2795
Nominal heat input/output	kW	75	100	120	100	120
Air output (warm)	m ³ /h	6,000	6,000	7,000	6,000	7,000
Throw	m ³ /h	40	40	45	45	45
Electrical power	W	550	550	800	900	1000
Electrical current	A	2.8	2.8	3.8	4.6	4.8
Voltage (50Hz)*	V	230	230	230	230	230
Sound level	dB(A)	79	79	81	79	79
Weight	kg	40	40	45	45	45
Gas consumption natural gas (G20)	m ³ /h	7.9	10.5	12.6	-	-
Gas consumption propane (G31)	kg/h	5.9	7.9	9.5	-	-
Oil consumption parafin	l/h - kg/h	-	-	-	10.1-8.3	12.1-9.7
Oil consumption diesel	l/h - kg/h	-	-	-	9.8-8.3	11.7-10.0
Gas connection	G"	3/4	3/4	3/4	-	-
Oil connection	mm	-	-	-	6	6

*) 60Hz also available

Accessories DXA/B-series

	Description	article no.	price €
1	Interface board for max. 8 heaters	IB5902	314
2	Remote status reader	GD3202	349
3	Room thermostat -20°- 40°C, splashproof	IP794209	159
	Suspension kit (4 chains of 110 cm + 8 carabiners)	GA8572	66
	Service parts box for DXA	GA4006-1	1382
DXB			
4	Automatic de-aeration set, incl. filter, steel-wired hose and mounting mat.	GD3456	281
	Flexible fuel hose (per m.)	IP494004	3
	Hose clamp 10mm	IP594422	2
	Service parts box for DXB	GA4008	1498
Gas connection sets DXA			
Gas connection set 3/4" natural gas			
	Gas hose 3/4" L 2000mm - not CE approved - incl. nipples	IP694128	137
	Gas hose 3/4" L 2000mm - CE approved - incl. nipples	IP779055	338
	Gas pressure regulator set natural gas- incl. nipples -	GD4004	142
	Gasball valve+ filter set 3/4" - incl. nipples	GD4000	129
Gas connection set 3/4" propane			
	Gas hose 3/4" L 2000mm not-CE approved - incl. nipples	IP694128	137
	Gas hose 3/4" L 2000mm - CE approved - incl. nipples	IP779055	338
	Gas pressure regulator set propane - incl. nipples - inlet pressure max. 1,75 bar, 50mbar outlet pressure	GD4006	172
	Gasball valve+ filter set 3/4" - incl. nipples	GD4000	129
Gas connection set 1" natural gas			
	Gas hose 1" L 2000mm - not CE approved - incl. nipples	IP694133	181
	Gas hose 1" L 2000mm - CE approved - incl. nipples	IP779065	471
	Gas pressure regulator set natural gas- incl. nipples - inlet pressure max. 200mbar, 27mbar outlet pressure	GD4004	142
	Gasball valve+ filter set 1" - incl. nipples	GD4002	181
Gas connection set 1" propane			
	Gas hose 1" L 2000mm - not CE approved - incl. nipples	IP694133	181
	Gas hose 1" L 2000mm - CE approved - incl. nipples	IP779065	471
	Gas pressure regulator set propane - incl. nipples - inlet pressure max. 1,75 bar, 50mbar outlet pressure	GD4006	172
	Gasball valve+ filter set 1" - incl. nipples	GD4002	181



Winterwarm: leading

Winterwarm has been engaged in the development, production and sales of industrial heating in Europe since 1936.

The company not only specialises in indirect fired unit air heaters, but also sells water heaters, electric heaters, destratification fans and gas and oil fired heaters for the agricultural and horticultural industry.

Winterwarm
heating solutions 

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