

Axial Heaters

Heating capacity: 3,0 kW - 106,4 kW

KXT

Heating Terminal Unit



Indoor Installation

The winning and new design give to this product a totally new look enabling an easy integration in commercial sites (Shopping Centres, Shops, Warehouses, Outlets, etc.) further to industrial sites, where this product is quite typical.

CABINET (PRE-PAINTED STEEL + ADJUSTABLE GRILLS)

- Cabinet made of extremely thick galvanized steel-sheet and pre-painted white RAL 9002.
- Air supply single bank permanently adjustable grill (enables to send the air-flow in any direction high/down) made with painted grill grey RAL 9007.

HEAT EXCHANGER Water coil

Highly efficient coil made of copper pipes and aluminium fin fixed by mechanical expansion. Coils without air vent valves, standard connections on the right side (on request left side). Coils tested at 30 Bar pressure, suitable to work with water at max 15 Bar pressure.



Technical Specifications

KXT-HA

Available with 1 or 3 speeds

í RÓN	KXT-HA	120	230	320	430	520	630	720	830	920	1030
Heating capacity (1)	W	16.330	20.880	26.650	33.760	41.380	48.630	54.950	70.220	85.940	106.410
Air flow (2)	m ³ /h	1.856	1.758	2.860	2.688	4.680	4.083	5.940	5.590	9.720	8.875
Air throw (V = 0,25 m/s)	m ³ /h	18	14,9	21,1	18,8	24,3	21,9	22,4	20,5	25,1	23,5
Sound level (3)	db	43	44	46	47	49	50	49	50	52	53
Water flow (4)		1.404	1.795	2.292	2.903	3.558	4.182	4.726	6.039	7.391	9.151
Water pressure drops (5)		19	17	23	24	20	21	18	22	27	32
Ref. fan section	Ref.	1x	1x	1x	1x	1x	1x	2x	2x	2x	2x
Motors/Fans	No./No.	1/1	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2	2/2
Speed number	No.	1	1	1	1	1	1	1	1	1	1
Max Current input (6)	W	1x 90	1x 95	1x 140	1x 150	1x 115	1x 120	2x 140	2x 150	2x 115	2x 120
	A	1x 0,42	1x 0,44	1x 0,65	1x 0,70	1x 0,55	1x 0,57	2x 0,65	2x 0,70	2x 0,55	2x 0,57
Power supply	230Vac-1Ph-50Hz Monofase/Single-phase										
Dimensions	A mm	520	520	620	620	720	720	1.120	1.120	1.320	1.320
	B mm	440	440	540	540	640	640	540	540	640	640
	C mm	350	350	350	350	350	350	350	350	350	350
Water connections		3/4" M	3/4" M	1" M	1" M	1" M	1" M	1"1/4 M	1"1/4 M	1"1/4 M	1"1/2 M
Net weight		14	16,2	17,7	20	22,1	23,7	36,5	40,5	43,2	47,4

(7) Air Flow Reduction

(8) Heating Capacity Reduction

Heating capacity reduction (depending on air flow reduction)																
Air flow	1,00	0,95	0,90	0,85	0,80	0,75	0,70	0,65	0,60	0,55	0,50	0,45	0,40	0,35	0,30	0,25
Heating capacity	1,00	0,97	0,93	0,89	0,86	0,82	0,78	0,74	0,70	0,66	0,62	0,58	0,53	0,48	0,44	0,38

Type KXT-HA	External static pressure					
	0 Pa	10 Pa	20 Pa	30 Pa	40 Pa	50 Pa
120, 230	1	0,95	0,86	0,72	0,5	0,25
320, 430, 720, 830	1	0,96	0,87	0,74	0,53	0,26
520, 630, 920, 1030	1	0,96	0,88	0,75	0,55	0,26

Notes

Technical data refer to the following conditions: Standard unit – Atmospheric pressure 1013 mbar - Power supply 230Vac/1Ph/50Hz.

(1) – (2) – (4) – (5): Nominal technical data refer to the unit with free air flow (External static pressure = 0 Pa).

(1) Heating: Environment air temperature: 15°C - Entering water temperature 85°C, leaving water temperature 75°C – Nominal air flow (2). For static pressure > 0 Pa see (7) + (8) (ref. entering water temp. 85°C and water flow as for the nominal air flow (4)).

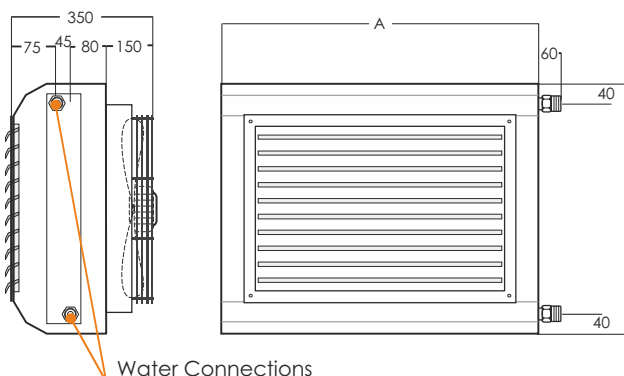
(1) (8) Heating capacities: Data calculated by SW and measurements made in calorimetric room ref. UNI 6552, UNI 6552/A242 standards.

(2) (7) Air flow and Static pressure: Nominal data measured with casing ref. AMCA 210-74 fig.11 standards and plenum + diaphragm ref. CNR-UNI 10023 standards.

(3) Sound Levels: Free field sound pressure, 2 m distance. Data calculated based on sound power measured in riverberation room ref. ISO 3741 - ISO 3742 standards.

(6) Electrical data: Data measured with Wattmeter Jokogawa WT110 (Max value, nominal, of motor label = reference value for the electrical system design).

Dimensions



Water Connections

Accessories

- For the electrical units IT IS ALWAYS RECOMMENDED to use a control panel with POST - VENTILATION function: useful function for the reduction of the thermal inertia of the electrical heater and thus to protect the unit from highly damaging thermal shocks . For controller type please consult technical department.
- 3-way valves upon request.



KXT-HE With Electrical Resistances

Available with 1 or 3 speeds

i RÓN	KXT-HE	030	045	060	075	090	105	120	135	150	165	180	200
Heating capacity (1)	W	3.000	4.500	6.000	7.500	9.000	10.500	12.000	13.500	15.000	16.500	18.000	20.000
Air flow (2)	m ³ /h	1.500	1.500	1.500	1.500	1.500	1.500	1.500	1.500	2.500	2.500	2.500	2.500
Air throw (V = 0,25 m/s)	m	19,5	19,5	19,2	18,9	18,6	18,3	18,0	17,7	23,2	22,9	22,6	22,5
Sound level (3)	dB(A)	44	44	44	44	44	44	44	44	47	47	47	47
Air supply-intake ΔT (4)	°C	8	11	15	19	23	27	30	34	23	25	27	30
Electrical Supply	El. Heaters	230Vac-1Ph-50Hz Monofase/Single-phase											
	Motor	230Vac-1Ph-50Hz Monofase/Single-phase											
Current input (5)	El. Heaters W	3.000	4.500	6.000	7.500	9.000	10.500	12.000	13.500	15.000	16.500	18.000	20.000
	A	13,05	19,57	26,09	32,61	39,14	45,66	52,18	58,70	65,22	71,74	78,27	86,96
	Motor W	90	90	90	90	90	90	90	90	140	140	140	140
Fan section	A	0,42	0,42	0,42	0,42	0,42	0,42	0,42	0,42	0,65	0,65	0,65	0,65
Motors/Fans	No	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Speed Number	No	1	1	1	1	1	1	1	1	1	1	1	1
Dimensions	A mm	520	520	520	520	520	520	520	520	620	620	620	780
	B mm	440	440	440	440	440	440	440	440	540	540	540	540
	C mm	350	350	350	350	350	350	350	350	350	350	350	350
Net weight	kg	13,1	13,1	13,4	13,7	14,0	14,3	14,6	14,9	17,3	17,7	18,0	19,4

Type KXT-HE	External static pressure					
	0 Pa	10 Pa	20 Pa	30 Pa	40 Pa	50 Pa
3/230 - 13,5/230	1	0,95	0,86	0,72	0,5	0,25
15/230 - 20/230	1	0,96	0,87	0,74	0,53	0,26

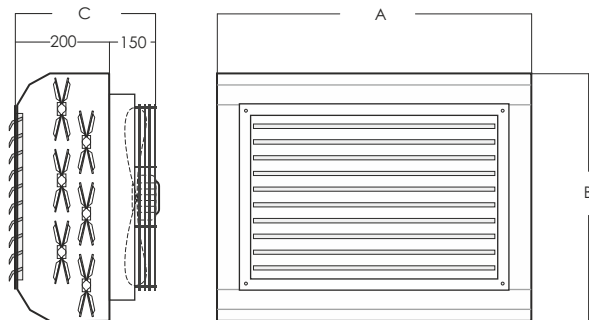
Notes

Technical data refer to the following conditions: Standard unit - Atmospheric pressure 1013 mbar - Electric motor Power supply 230Vac/IPh/50Hz.

- (1) Heating capacity: ref. UNI 6552 , UNI 6552/A242 standards. (2): Nominal air flow refer to the unit with free air flow (External static pressure = 0 Pa).
- (2) (6) Air flow and Static pressure: Nominal data measured with casing ref. AMCA 210-74 fig.II standards and plenum + diaphragm ref. CNR-UNI I0023 standards.
- (3) Sound Levels: Free field sound pressure, 2 m distance. Data calculated based on sound power measured in riverberation room ref. ISO 3741 - ISO 3742 standards.
- (4) Nominal el. heaters DT: DT referred to 80% of Qa-n (2) ; Refer to the most probable working conditions of the unit (Qa with reduce speed or ESP>0Pa). Electric heater Power supply 230Vac/IPh/50Hz.
- (5) Electrical data: Measurements with Wattmeter Jokogawa WT110. (For motor: Max value, nominal of label = reference value for the electrical system design).

Unit's speed number may change to 3 upon request.

Dimensions



Accessories

- For the electrical units IT IS ALWAYS RECOMMENDED to use a control panel with POST - VENTILATION function: useful function for the reduction of the thermal inertia of the electrical heater and thus to protect the unit from highly damaging thlermal shocks . For controller type please consult technical department.
- 3-way valves upon request.



CE KLIMALLCO's units comply with the European regulations, that guarantee the safety of the product.



KLIMALLCO S.A.
Manufacturers Of Air Conditioning Equipment
Tripio Lithari, Mandra Attiki - Greece P.O. Box: 15, 19 600
Tel : +30 210 5550360 / FAX : +30 210 5551919
e-mail: info@klimallco.gr <http://www.klimallco.com>

Klimallco sa Air Treatment Experts



KLIMALLCO's quality management system is certified according to **ISO 9001:2015** and **ISO 14001:2015** for:
Design, manufacturing and trading of air conditioning equipment.

Technical Data
2019