



# BX Portable/wall-mounted electric fan heater



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## Portable/wall-mounted electric fan heater

The BX series has a solid build for demanding environments.

The fans are used anywhere there is a need for temporary but efficient heating.

Construction sites, warehouses, workshops, stores, exhibition halls, meeting halls and garages are but a few examples.

- Seven different outputs from 2 kW to 30 kW
- power selector  $0 \frac{1}{2} \frac{1}{1}$  power
- Two-metre connection cable
- 3-year warranty
- BX 2E-15E have dials on the heater front panel to change between continuous and intermittent fan operation.

### Design

The casing is made of red lacquered galvanised sheet steel and the heating elements are made of stainless steel, EN 1.4301. BX 9AE and BX 9ANE have a switch on the front panel for low or high fan speed. IPX4 degree of protection (splash-proof execution) and approved for use in humid and wet areas (e.g. construction sites).

#### **Feedback Control**

Thermostat-controlled heat adjustment with capillary tube thermostat (0 °C to +35 °C) that measures the inlet air temperature, which provides high accuracy.

#### Connection

BX 2E and BX 3E come with an earthed plug and a rubber connection cable.

BX 5E, BX 5EN, BX 9SE and BX 9AE come with a rubber connection cable and 16 A plug (CEE socket).

BX 5ER and BX 15EN come with a rubber connection cable without plug.

BX 9ANE, BX 15E and BX 20E come with a rubber connection cable and a 32 A plug (CEE socket).

BX 30E comes a rubber connection cable and a 63 A plug (CEE socket).

BX 9AE, BX 9SE and BX 15E do not require an earthed neutral point in the outlet owing to their 400 V motor, which is an advantage in many older plants.



#### **Approvals**

Fan heater tested and approved by Intertek Semko AB according to:

LVD directive: EN 60335-1 and EN 60335-2-30

EMC directives: EN 61000-6-2, EN 61000-6-3, EN 61000-6-1 (BX 20/30)

EMF directive: EN 62233







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# **Product Range Overview**

Туре		BX 2E	вх зе	BX 5E	BX 5EN	BX 5ER	BX 9SE	BX 9AE	BX 9ANE <sup>3)</sup>
Voltage	V	230 VAC 1-ph. 50/60 Hz	230 VAC 1-ph. 50/60 Hz	400 VAC 3-ph. N 50/60 Hz	230 VAC 3-ph. 50/60 Hz	230 VAC 1-ph. 50/60 Hz	400 VAC 3-ph. 50 Hz	400 VAC 3-ph. 50 Hz	230 VAC 3-ph. 50 Hz
Output	kW	2	3	5	5	5	9	9	9
Output stage	kW	0-1-2	0-1.5-3	0-2.5-5	0-2.5-5	0-3.3-5	0-4.5-9	0-4.5-92)	0-4.5-92)
Current	А	4.3 / 8.7	6.5 / 13.0	6.3 / 7.2	10.9 / 12.6	14.5 / 21.7	11.3 / 13.0	6.5 / 13.0	11.3 / 22.6
Sound pressure level <sup>1)</sup>	dB(A)	39	44	47	47	47	53	42/53	44/53
Air volume	m³/h	190	290	500	500	500	900	700/900	700/900
Motor speed	rpm	1300	1300	1300	1300	1300	1300	1000/1300	1000/1300
Temp. increase due to heater	°C	29	29	28	28	28	28	36/28	36/28
Degree of protection		IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4
Weight	kg	5.3	5.7	6.9	6.8	6.7	10.4	11.0	11.1
Width	mm	275	275	275	275	275	350	350	350
Height	mm	340	340	340	340	340	415	415	415
Depth (incl. bracket)	mm	345	345	345	345	345	440	440	440

<sup>1)</sup> Measured at 5 metres in front of appliance. 2) Uniform phase load even at half/reduced output. 3) Fan motor is in continuous operation.

Туре	BX 15E	BX 15EN	BX 20E <sup>3)</sup>	BX 30E <sup>3)</sup>	
Voltage	V	400 VAC 3-ph. 50 Hz	230 VAC 3-ph. 50 Hz	400 VAC 3-ph. N 50 Hz	400 VAC 3-ph. N 50 Hz
Output	kW	15	15	20	30
Output stage	kW	0-7.5-15 <sup>2)</sup>	0-7.5-152)	0-10-202)	0-20-302)
Current	Α	10.8 / 21.7	19.3/38.2	15.0/29.5	29.5/43.9
Sound pressure level <sup>1)</sup>	dB(A)	55	55	56	59
Air volume	m³/h	1000	1000	1750	2200
Motor speed	rpm	1300	1300	1100	1300
Temp. increase due to heater	°C	42	42	32	38
Degree of protection		IPX4	IPX4	IPX4	IPX4
Weight	kg	13.8	14.5	25	30
Width	mm	350	350	570	570
Height	mm	415	415	570	570
Depth (incl. bracket)	mm	440	440	570	610



<sup>&</sup>lt;sup>1)</sup> Measured at 5 metres in front of appliance. <sup>2)</sup> Uniform phase load even at half/reduced output. <sup>3)</sup> Fan motor is in continuous operation.

## **Power Requirements**

The table below provides an estimate of the output that needs to be fed into an insulated room to keep it heated continuously.

To quickly heat a cold room, the output in the table must be doubled.

Temperature increase <sup>2)</sup>	BX 2 2 kW	BX 3 3 kW	BX 5 5 kW	BX 9 9 kW	BX 15 15 kW	BX 20 20 kW			
Δt°C	Volume of room in m <sup>31)</sup>								
20 °C	100-150	150-230	255-370	450-670	750-1100	1000-1500			
30 °C	70-100	100-150	170-250	300-450	500-750	700-1000			
40 °C	50-75	75-110	130-190	220-340	370-550	500-750			

<sup>&</sup>lt;sup>1)</sup> The lower values apply to somewhat less well insulated rooms. <sup>2)</sup> Temperature increase ( $\Delta$  t °C) is the difference between the indoor and outdoor temperatures on the coldest days of the year.





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