



PORTABLE HEATERS FOR PROFESSIONAL USE



HEADQUARTERS MCS CLIMATE SOLUTIONS, VERONA, ITALY



FACTORY MCS CLIMATE SOLUTIONS, VERONA, ITALY



IMAGES: MCS CLIMATE SOLUTIONS FACTORY, VERONA, ITALY

I CHOOSE MCS PORTABLE HEATERS. WHY?



SAVE MONEY

MCS heaters are plug and play: do not need installation



CHOOSE YOUR ENERGY

Choose the cheapest or the cleanest energy you like: gas, oil, electricity



USE THE SAME HEATER IN DIFFERENT PLACES

MCS heaters are portable



RESPECT THE ENVIRONMENT

The efficient MCS burning process minimizes pollution



HEAT ONLY WHAT YOU NEED

MCS heaters can heat either large or limited areas



REDUCE YOUR INVESTMENT BUYING ONLY THE POWER YOU NEED

Further MCS heaters can be added if necessary



HEAT ONLY WHEN YOU NEED

MCS heaters warm up very quickly



PROTECT YOUR INVESTMENT

MCS heaters last many years and can be easily repaired with spare parts available for 10 years



AVOID OVERHEATING AND OVERSPENDING

MCS heaters can be controlled by a remote thermostat

INDEX



POWER
RANGE:

BEST FOR:

PAGE

ACCESSORIES



The guide to mobile heaters accessories. This additional equipment makes the work with MCS heaters more comfortable.

8-9

INDIRECT FIRED AIRFLOW HEATER BV 500



High pressure indirect fired heater with an integrated tank. The best for construction, events, emergency, agriculture and military sector.

500 000
Btu/h

■ Agriculture
■ Construction
■ Industry
■ Warehouse

10-11

INDIRECT FIRED AIRFLOW HEATER AIR-BUS BV470



Indirect fired heaters AIR-BUS have a wide heat exchanger in stainless steel pipes and an external burner. They offer high efficiency and the possibility of connecting up to 4 hoses per unit.

460 000
Btu/h

■ Agriculture
■ Construction
■ Industry
■ Warehouse

12-13

INDIRECT FIRED AIRFLOW HEATERS TORPEDO



Indirect fired heaters are highly efficient devices that provide large volume of 100% clean, dry and fume free warm air. They are best for places with limited ventilation like shops, event's tents, food preparation areas or exhibition halls. They can be used with flexible hoses that make the warm air be spread around easily.

up to
276 300
Btu/h

■ Agriculture
■ Construction
■ Industry
■ Warehouse
■ Garage
■ Emergency
-Events

14-15

DIRECT FIRED INFRARED HEATERS XL



Infrared heaters deliver heat fast and exactly to the place where it is required without any air movement. They are suitable for dust-free drying walls or paints, defrosting machinery or pipe lines, heating the working areas. This powerful technology allows significant energy saving and can be used in dusty areas or outside.

up to
146 900
Btu/h

■ Agriculture
■ Construction
■ Industry
■ Warehouse

16-20

DIRECT FIRED AIRFLOW HEATERS TORPEDO



Direct fired heaters are highly efficient devices that provide large volumes of instant heat where it is required. They are best for open or well ventilated areas like factories, warehouses or construction sites. MCS direct heaters are known as very efficient and robust as well as safe and easy in use.

379 000
Btu/h

■ Agriculture
■ Construction
■ Garage

18



























CHART



How to choose the best heater for your needs.

21-22

HEATING SOLUTIONS FOR: CONSTRUCTION, PRODUCTION & LOGISTICS, WORKSHOPS & GARAGES

APPLICATION					
	INDIRECT FIRED AIRFLOW	DIRECT FIRED AIRFLOW	DIRECT FIRED INFRARED		
CONSTRUCTION					
HEATING CONSTRUCTION SITES 					
HEATING ROADWORKS 					
DRYING BUILDINGS AND PAINT 					
INDUSTRY & WAREHOUSES					
SPACE HEATING 					
SPOT HEATING 					
WORKSHOPS & GARAGES					
SPOT HEATING 					
SPACE HEATING 					

HEATING SOLUTIONS FOR: AGRICULTURE, EVENTS & MILITARY, EMERGENCY

APPLICATION

AGRICULTURE

HEATING
LIVESTOCK
FACILITIES



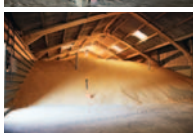
HEATING
GREENHOUSES



HEATING
STORAGE
FACILITIES



DRYING
CROPS



INDIRECT FIRED
AIRFLOW



DIRECT FIRED
AIRFLOW



DIRECT FIRED
INFRARED

EVENTS & MILITARY

OUTDOOR
HEATING



HEATING
TENTS



EMERGENCY

SPACE
HEATING



SPOT
HEATING



ACCESSORIES

PHOTO	ACCESSORIES	CODE	DESCRIPTION	HEATERS
	Fuel pre-heater	4031.120 4100.827		B 360, BV 110, BV 170, BV 290, XL 81 BV 77
	Room thermostat TH5 with cable	4150.109 4150.112	10 feet 33 feet	XL 81, B 360, BV 360, BV 77, BV 110, BV 170, BV 290, BV 470 XL 81, B 360, BV 360, BV 77, BV 110, BV 170, BV 290, BV 470, BV 500
	Digital thermostat THD with 33 feet cable	4150.113		BV 110, BV 170, BV 290, BV 470, BV 500
	Trolley	4201.159		XL 61
	Manometers	4109.435 4201.187	0-230 PSI 0-360 PSI	B 360, BV 77, BV 110, BV 170, BV 290, XL 61, XL 81
	1-way outlet	4514.097	Ø 24 in.	BV 470
	2-way outlet to be applied on 1-way outlet	4514.096 4033.230 4033.229	2 x Ø 17 in. 2 x Ø 12 in. 2 x Ø 16 in.	BV 470 BV 110, BV 170 BV 290
	Flexible tubes black and yellow First 7 feet are made of a material resistant to 302°F	4515.550 4515.553 4031.401 4031.038	Ø 12 in. - 10 feet Ø 12 in. - 25 feet Ø 16 in. - 25 feet Ø 24 in. - 25 feet	BV 77 BV 470 (4-way outlet), BV 77, BV 110 (2-way outlet), BV 170 (2-way outlet), BV 500 BV 110, BV 170, BV 290 (2-way outlet), BV 470 (2-way outlet), BV 500 BV 290, BV 470 (1-way outlet),
	Flexible tubes white First 7 feet are made of a material resistant to 302°F	4515.588 4515.589 4515.587	Ø 12 in. - 25 feet Ø 16 in. - 25 feet Ø 24 in. - 25 feet	BV 470 (4-way outlet), BV 77, BV 110 (2-way outlet), BV 170 (2-way outlet), BV 110, BV 170, BV 290 (2-way outlet), BV 470 (2-way outlet), BV 290, BV 470 (1-way outlet),
	Perforated tubes	4514.594	Ø 24 in. - max. 164 feet	BV 470
	Connection kit for 1-way outlet	4518.181	Ø 24 in.	BV 470
	Duct hanger for perforated tubes	4517.717	Ø 24 in.	BV 470

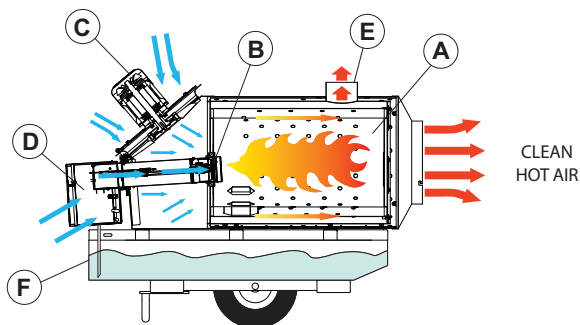
ACCESSORIES

PHOTO	ACCESSORIES	CODE	DESCRIPTION	HEATERS
	Adaptor ring kit	4032.950 4031.909 4031.910	Ø 12 in. Ø 16 in. Ø 24 in.	BV 77 BV 110, BV 170 BV 290
	Bag for flexible tubes	4515.592 4515.591 4515.593	Ø 12 in. Ø 16 in. Ø 24 in.	
	Rain cover	4514.652 4514.651 4514.650		BV 77 BV 110, BV 170 BV 290
	Wheel	4514.601		BV 470
	Diffuser	4517.744 4517.745 4517.746	Ø 12 in. Ø 16 in. Ø 24 in.	BV 77, BV 470 (4-way outlet), BV 500 BV 110, BV 170, BV 470 (2-way outlet), BV 500 BV 290, BV 470 (1-way outlet)
	Fuel line 13 feet	4031.460		BV 470
	Fuel scoop	4515.932		BV 470
	Top	4514.085		BV 470
	Stainless steel exhaust-pipe 3 feet	4013.260 4013.243 4013.245	Ø 5 in. Ø 6 in. Ø 8 in.	BV 77 BV 110, BV 170, BV 290, BV 500 BV 470
	Stainless steel exhaust elbow 90°	4013.261 4013.247 4013.248	Ø 5 in. Ø 6 in. Ø 8 in.	BV 77 BV 110, BV 170, BV 290, BV 500 BV 470
	Stainless steel chimney pot	4013.262 4013.249 4013.250	Ø 5 in. Ø 6 in. Ø 8 in.	BV 77 BV 110, BV 170, BV 290, BV 500 BV 470
	Air recycling kit	4100.826 4100.825 4517.002		BV 110, BV 170 BV 290 BV 470

INDIRECT FIRED AIRFLOW HEATER



BV 500



- ▼ Airflow 4,032 cfm
- ▼ Max. capacity 500,000 Btu/h
- ▼ Tank capacity 46 gal
- ▼ Outlet temperature rise 200 [°] F
- ▼ Burner with easy nozzle change
- ▼ Steel and rubber wheels
- ▼ Welding performed by robots and 100% inspected
- ▼ It has windows which allow an easy access to the heat exchanger for cleaning
- ▼ Quick connectors for electrical parts

- Ⓐ – Combustion chamber in stainless steel
- Ⓑ – Nozzle
- Ⓒ – Motor
- Ⓓ – Burner
- Ⓔ – Exhaust hose
- Ⓕ – Tank

SPECIFICATIONS		BV 500 – 15C
Max. capacity	Btu/h	500,000
Standard capacity	Btu/h	400,000
Airflow	cfm	4,032
Fan motor	HP	1.5
Fan motor	rpm	1,750
Outlet temperature rise	°F	200
Max nozzle	GPH	2.75
Standard nozzle	GPH	2.25
Diesel pressure	PSI	174
Static pressure	WC	1.08"
Air outlet	inches ["]	2 of 12 / 1 of 16
Ductability	feet	100
Fuel tank capacity	gal	46
Max. fuel consumption	gal/h	3.5
Standard fuel consumption	gal/h	3
Electric power requirement	amp	14
Electric voltage	V	115
Net weight	lbs	494
Dimensions	inches	83 x 29 x 49



INDIRECT FIRED AIRFLOW HEATER



2 of 12 in. flexible tubes



High efficiency airflow



When required, in case of relevant change of altitude, an arrow allows an easy adjustment of the burner according to the nozzle



Fuel filter is outside. Fuel pre-heater is inside, within the combustion head



Control panel including on/off switch with LED



Motor is connected to the electronic panel with a snap-on connector

OPTIONAL ACCESSORIES:



Room thermostat TH5 with cable
33 feet - 4150.112



Digital thermostat THD with 33 feet cable
4150.113



Flexible 25 feet tubes
1 x 16 in. - 4031.401
2 x 12 in. - 4515.553

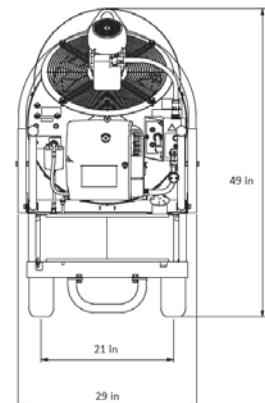
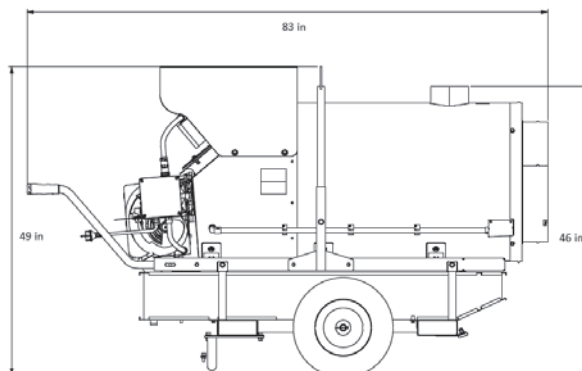


16 inches outlet
4033.976

BV 500 DIMENSIONS:



Air recycling kit
4034.369



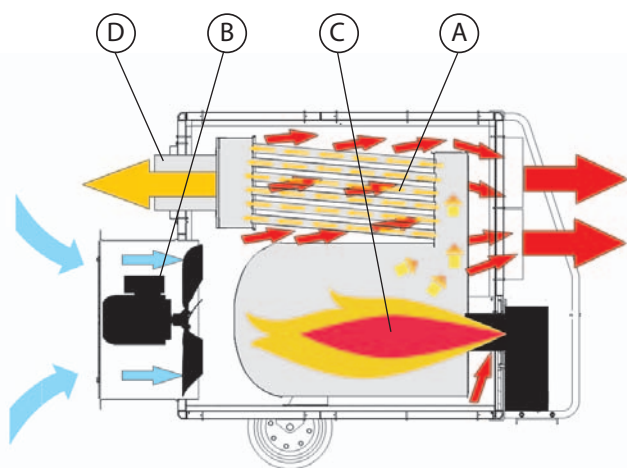
INDIRECT FIRED AIRFLOW HEATER AIR-BUS BV470



AIR-BUS
BV470FS



- ▼ Axial fan
- ▼ Achieved pressure 100 Pa
- ▼ Possible connection to an optional room thermostat
- ▼ Possible connection to 4, 2 or 1 flexible tubes
- ▼ Possibility of flue gas exhaust
- ▼ Separate oil burner
- ▼ Summer-Winter switch for ventilation only
- ▼ Fuel pre-heating
- ▼ Electronic flame control with photocell
- ▼ Fan-Limit thermostat with automatic reset
- ▼ Limit thermostat with manual reset
- ▼ Two oil filters: oil pump filter and suction filter
- ▼ Suction filter with heating option as a standard
- ▼ High efficiency heat exchanger
- ▼ Stainless steel combustion chamber
- ▼ Trolley included



CLEAN
HOT AIR

- Ⓐ – Multiple stainless steel tubes
- Ⓑ – Motor
- Ⓒ – Burner
- Ⓓ – Exhaust hose

SPECIFICATIONS		BV 470FS
Heating power	Btu/h	460 000
Air displacement	cfm	4 709
Fan		axial
Thermostat control		optional
Fuel consumption	gph	3.36
Power supply	V/Hz	120/60
Rated current	A	8.8
Flue tube Ø	inches	8
Blast opening Ø	inches	4 x 10.8
Packaging dimension (l x w x h)	inches	83.6 x 30.2 x 49.2
Net weight	lb	482



INDIRECT FIRED AIRFLOW HEATER AIR-BUS BV470



1-WAY OUTLET



4-WAY OUTLETS



Easy to change from 4 to 1 exit.



OPTIONAL ACCESSORIES:



Room thermostat
TH5 with cable
10 feet - 4150.109
33 feet - 4150.113



Digital thermostat
THD with 33 feet cable
4150.113



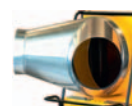
Top
4514.085



Flexible 25 feet tubes
4-way outlet
Ø 12 in. - 4515.553
2-way outlet
Ø 16 in. - 4031.401
1-way outlet
Ø 24 in. - 4031.038



1-way outlet
Ø 24 in. - 4514.097



2-way outlet
to be applied
on 1-way outlet
2 x Ø 17 in.
- 4514.096



Perforated tubes
Ø 24 in. - max. 164 feet
- 4514.594



Fuel line 13 feet
(are required 2 pieces
per 1 unit, supply line
and return line)
4031.460



Fuel scoop
4515.932

Connection kit for 1-way outlet
Ø 24 in. - 4518.181



Air recirculation kit
kit 4517.002
tube 4517.621



Wheel
4514.601

INDIRECT FIRED AIRFLOW HEATERS TORPEDO

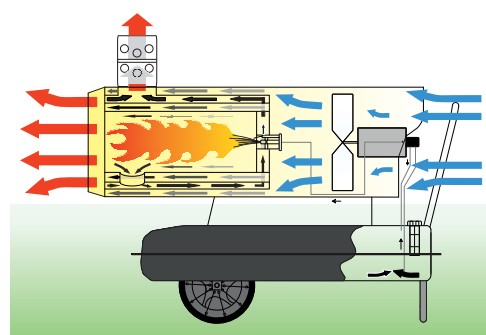


BV 77



BV 110
BV 170
BV 290

- ▼ Possible connection to an optional room thermostat
- ▼ Possible connection to a fuel pre-heater
- ▼ Possibility of flue gas exhaust
- ▼ High air flow
- ▼ Overheat thermostat
- ▼ Post-ventilation
- ▼ Transparent external suction filter
- ▼ Three oil filters: oil pump filter, suction filter and inlet filter
- ▼ Electronic flame control with photocell
- ▼ Heat exchanger
- ▼ Stainless steel combustion chamber
- ▼ Oil tank with level indicator
- ▼ Trolley included
- ▼ Easy maintenance with external pump
- ▼ Strong and long lasting construction



SPECIFICATIONS		BV 77	BV 110	BV 170	BV 290
Heating power	Btu/h	68.300	112.800	160.400	276.300
Air displacement	cfm	910	1060	1060	1950
Fuel autonomy	h	17	19	13	12
Thermostat control		optional	optional	optional	optional
Fuel consumption	gph	0.53	0.86	1.23	2
Power supply	V/Hz	120/60	120/60	120/60	120/60
Rated current	A	3	7.5	7.5	11.4
Tank capacity	gal	9.5	17.2	17.2	27.72
Flue tube Ø	inches	4.8	6	6	6
Blast opening Ø	inches	9.2	13.6	13.6	16
Packaging dimension (l x w x h)	inches	47.5 x 16 x 20.9	48 x 26 x 40	53.2 x 26 x 40	63 x 29.6 x 46.5
Net/gross weight	lb	73/81	132/167	147/185	222/271
Pallet	pcs	8	1	1	1

INDIRECT FIRED AIRFLOW HEATERS TORPEDO



AIR DUCTING

A		B	H	C		D
INLET HOSE	Ø INLET HOSE	AIR RECYCLING KIT		ADAPTOR RING KIT	Ø OUTLET DIAMETER	OUTLET HOSE
4515.553	305 mm	4100.826	BV 110 BV 170	4031.909	407 mm	4031.401
4031.401	407 mm	4100.825	BV 290	4031.910	610 mm	4031.038

OPTIONAL ACCESSORIES:



Room thermostat
TH5 with cable
10 feet - 4150.109
33 feet - 4150.112



Digital thermostat
THD with 33 feet cable
4150.113



Fuel pre-heater
BV 77 - 4100.827
BV 110, BV 170,
BV 290 - 4031.120



Flexible tubes - 1-way outlet
BV 77 - Ø 12 in. - 10 feet - 4515.550
BV 77 - Ø 12 in. - 25 feet - 4515.553
BV 110, BV 170 - Ø 16 in. - 4031.401
BV 290 - Ø 24 in. - 4031.038
Flexible tubes - 2-way outlet
BV 110, BV 170 - Ø 12 in. - 4515.553
BV 290 - Ø 16 in. - 4031.401



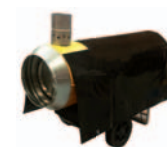
Flexible tubes white - 25 feet
BV 77 - Ø 12 in. - 4515.588
BV 110, BV 170 - Ø 16 in.
- 4515.589
BV 290 - Ø 24 in. - 4515.587



Adaptor ring kit
BV 77 - Ø 12 in.
- 4032.950
BV 110, BV 170
- Ø 16 in. - 4031.909
BV 290 - Ø 24 in.
- 4031.910



Diffuser
BV 77 - Ø 12 in. - 4517.744
BV 110, BV 170 - Ø 16 in.
- 4517.745
BV 290 - Ø 24 in. - 4517.746



Rain cover
BV 77 - 4514.652
BV 110, BV 170 - 4514.651
BV 290 - 4514.650
Master rain cover increase
static IP protection
to a value of IP44



2-way outlet
BV 110, BV 170
- 2 x Ø 12 in. - 4033.230
BV 290 - 2 x Ø 16 in.
- 4033.229



Air recycling kit
BV 110, BV 170 - 4100.826
BV 290 - 4100.825



Stainless steel
exhaust-pipe 3 feet
BV 77 - Ø 5 in. - 4013.260
BV 110, BV 170, BV 290
- Ø 6 in. - 4013.243



Stainless steel
exhaust elbow 90°
BV 77 - Ø 5 in. - 4013.261
BV 110, BV 170, BV 290
- Ø 6 in. - 4013.247



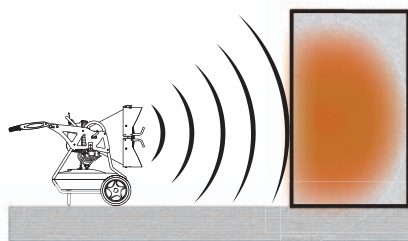
Stainless steel chimney pot
BV 77 - Ø 5 in.
- 4013.262
BV 110, BV 170, BV 290
- Ø 6 in. - 4013.247

INFRARED HEATERS

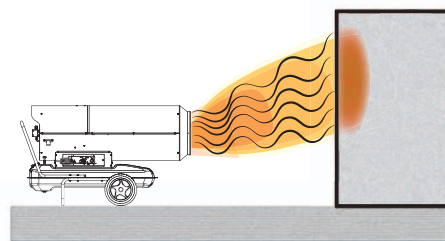
Similar to the sun, short-wave infrared radiation heats the objects without heating the air.
Once objects (or walls) are penetrated with heat, they can also reradiate and heat other objects.
Infrared radiation heats through fog or wind.
Infrared radiation runs straight, on the contrary hot air flows upwards.

Infrared heaters are an excellent solution for:

- Heating objects, bodies or walls indoors and outdoors.
- Drying plaster walls. Infrared heat penetrates the wall and evaporates the humidity of the wall from inside. On the contrary an airflow heater creates a dry surface which traps the humidity into the wall.
- Heating objects or limited indoor spaces. On the contrary hot air is quickly dispersed in the room.
- Saving energy, because less energy is required for achieving the same heating effect.

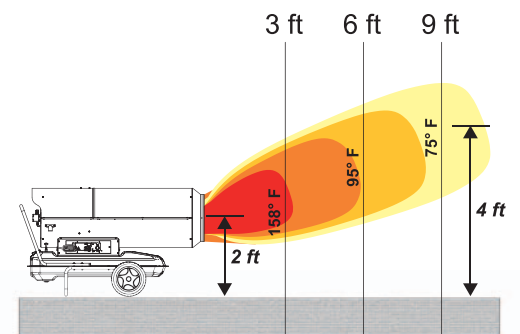
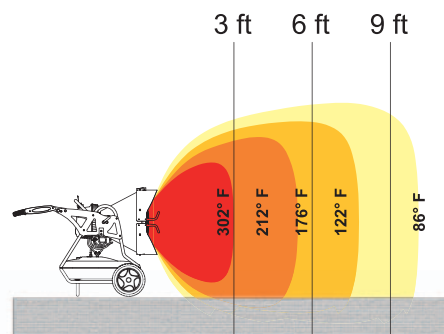


INFRARED HEATERS
HEAT OBJECTS

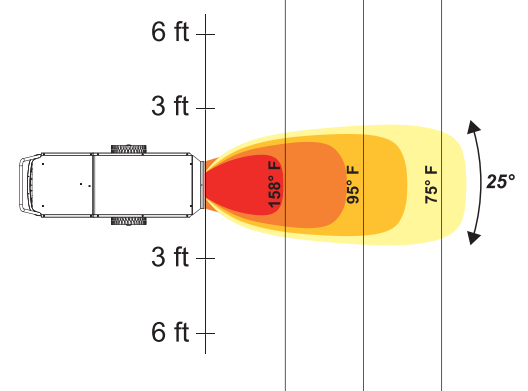
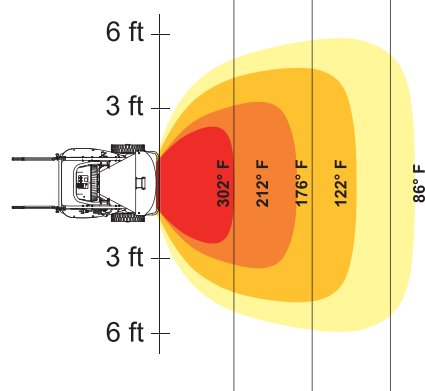


AIRFLOW HEATERS
HEAT AIR (AND OBJECTS)

SIDE VIEW



TOP VIEW



DIRECT FIRED INFRARED HEATER

XL61



XL 61

PATENTED



XL 61 WITH OPTIONAL TROLLEY

- ▼ Radiant heating
- ▼ No air flow
- ▼ Low noise
- ▼ Electronic flame control with photocell
- ▼ Post-ventilation
- ▼ Standard oil level indicator
- ▼ Strong and long lasting construction
- ▼ Two oil filters: oil pump filter and suction filter



Ventilation of the room is necessary to prevent a deficiency in oxygen supply.

OPTIONAL ACCESSORIES:



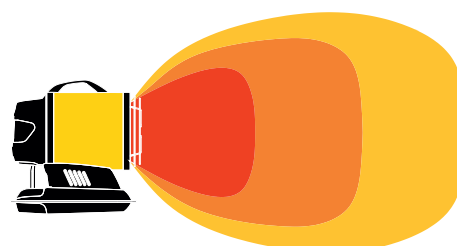
Trolley
4201.159



Room thermostat
TH5 with cable
10 feet - 4150.109
33 feet - 4150.112

SPECIFICATIONS		XL 61
Heating power	Btu/h	58 000
Fuel consumption	gph	0.43
Fuel autonomy	h	8
Thermostat control		optional
Power supply	V/Hz	120/60
Rated current	A	1.25
Tank capacity	gal	2.9
Packaging dimension (l x w x h)	inches	24 x 15.2 x 23.2
Net/gross weight	lb	42/46
Pallet	pcs	16

T Ambient 68°F	2 feet	3 feet	5 feet
XL 61	230°F	122°F	68°F



DIRECT FIRED INFRARED HEATER XL81



Ventilation of the room is necessary to prevent a deficiency in oxygen supply.



XL 81



- ▼ Very rigid frame in steel pipes
- ▼ Upper and lower heat protection
- ▼ ILME connection for remote digital or mechanic thermostat
- ▼ Steel tank
- ▼ Tilting handles
- ▼ Radiant heating
- ▼ No air flow
- ▼ Low noise
- ▼ Electronic flame control with photocell
- ▼ Post-ventilation
- ▼ Oil level indicator
- ▼ Adjustable direction/Tilting
- ▼ Suction and inlet filter
- ▼ Trolley included



OPTIONAL ACCESSORIES:



Fuel pre-heater
4031.120



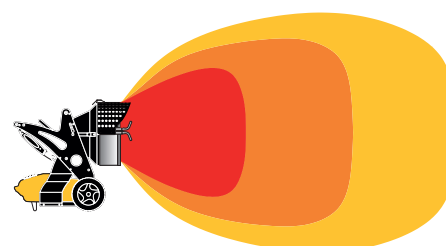
Room thermostat
TH5 with cable
10 feet - 4150.109
33 feet - 4150.112



Manometer
4201.187

SPECIFICATIONS		XL 81	
Heating power	Btu/h	95 000	126 000
Fuel consumption	gph	0.72	1.06
Fuel autonomy	h	20	15
Thermostat control		optional	
Power supply	V/Hz	120/60	
Rated current	A	1.2	
Tank capacity	gal	14	
Packaging dimension (l x w x h)	inches	40.5 x 29.5 x 46.5	
Net/gross weight	lb	110/148	
Pallet	pcs	1	

T Ambient 68°F	3 feet	7 feet	10 feet
XL 81	302°F	122°F	68°F



DIRECT FIRED INFRARED HEATER XL9 SRM



Ventilation of the room is necessary to prevent a deficiency in oxygen supply.



XL 9 SRM

PATENTED



- ▼ Low noise
- ▼ Infrared heating (short wave)
- ▼ No air flow
- ▼ Electronic flame control with photocell
- ▼ Post-ventilation
- ▼ Oil level indicator
- ▼ Possible connection to an optional room thermostat
- ▼ Oil pump filter, suction filter and inlet filter
- ▼ Adjustable direction/Tilting
- ▼ Trolley included

PATENTED

OPTIONAL ACCESSORIES:



Fuel pre-heater
4031.120



Room thermostat
TH5 with cable
10 feet - 4150.109
33 feet - 4150.112



Manometer
4109.435

SPECIFICATIONS		XL 9	
	Btu/h	99 300	146 900
Fuel consumption	gal/h	0,87	1,06
Fuel autonomy	h	21	14
Thermostat control		optional TH5	
Electric power	kW	0,2	
Power supply	V	110	
Frequency	Hz	60	
Rated current	A	1,7	
Tank capacity	gal	14	
Product size (l x w x h)	in	42 x 28 x 39	
Box size (l x w x h)	in	47 x 30 x 45	
Net/gross weight	lb	158/196	
Pallet	pcs	1	

DIRECT FIRED AIRFLOW HEATERS TORPEDO



B 360



- ▼ Overheat thermostat
- ▼ High quality fuel pump
- ▼ Post-ventilation thermostat
- ▼ Transparent external suction filter
- ▼ Possible connection to a fuel pre-heater
- ▼ High air displacement
- ▼ Possible connection to an optional room thermostat
- ▼ Three oil filters: oil pump filter, suction filter and inlet filter
- ▼ Thermally protected motor
- ▼ Electronic flame control with photocell
- ▼ Stainless steel combustion chamber
- ▼ Oil tank with level indicator
- ▼ Trolley included
- ▼ Easy maintenance with external pump
- ▼ Strong and long lasting construction

Ventilation of the room is necessary to prevent a deficiency in oxygen supply.

OPTIONAL ACCESSORIES:

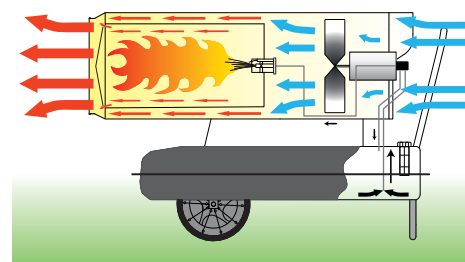


Room thermostat
TH5 with cable
10 feet - 4150.109
33 feet - 4150.112



Fuel pre-heater
4031.120

SPECIFICATIONS		B 360
Heating power	Btu/h	379 000
Air displacement	cfm	1950
Fuel autonomy	h	10
Thermostat control		optional
Fuel consumption	gph	2.74
Power supply	V/Hz	120/60
Rated current	A	11.4
Tank capacity	gal	27.72
Packaging dimension (l x w x h)	inches	63 x 30 x 46.5
Net/gross weight	lb	185/231
Pallet	pcs	1





HOW TO CHOOSE YOUR TUBE

FLEX TUBE



					black and yellow	black and yellow	black and yellow	white	white
		adaptor for flex tube	flex tube diameter		flex tube length	flex tube length	flex tube length	flex tube length	diffuser
HEATER			mm	inches	3,00 m	7.6 m	15 m	7.6 m	
BV 77	1 WAY	4032.950	305	12	4515.550	4515.553		4515.588	4517.744
BV 110	1 WAY	4031.909	407	16		4031.401		4515.589	4517.745
	2 WAYS	4033.230	305	12	4515.550	4515.553		4515.588	4517.744
BV 170	1 WAY	4031.909	407	16		4031.401		4515.589	4517.745
	2 WAYS	4033.230	305	12	4515.550	4515.553		4515.588	4517.744
BV 290	1 WAY	4031.910	610	24		4031.038		4515.587	4517.746
	2 WAYS	4033.229	407	16		4031.401		4515.589	4517.745
BV 500	1 WAY	4033.976	407	16		4031.401	4515.551	4515.589	4517.745
	2 WAYS	not required	305	12	4515.550	4515.553		4515.588	4517.744
BV 470 4 WAYS	1 WAY	4514.097	610	24		4031.038		4515.587	4517.746
	2 WAYS	4514.096	407	16		4031.401		4515.589	4517.745
	4 WAYS	not required	305	12	4515.550	4515.553		4515.588	4517.744

PERFORATED TUBE



		adaptor for perforated tube	perforated tube diameter	perforated tube length	tube hanger for perforated tube
HEATER			mm	sold per meter	
BV 690 1 WAY	1 WAY	4517.721	713	4517.617	4517.718



HOW TO CHOOSE YOUR HEATER

ΔT 86 °F



DIRECT FIRED HEATERS SUGGESTED HEATED AREA



Btu/h		square feet
68 200	XL 61	172
146 900	XL 9	269

FIRED AIRFLOW HEATERS SUGGESTED HEATED VOLUME



Btu/h			cubic feet	cubic feet	cubic feet	cubic feet
68 200	–	BV 77	28923	13490	8087	5791
112 800	–	BV 100	47710	22284	13349	9535
160 400	–	BV 170	67981	31713	19035	13596
276 300	–	BV 290	117 138	54667	32807	23414
379 000	B 360	–	160 540	74902	44956	32101
460 000	–	AIR-BUS BV 470	193 806	90441	54279	38776
500 000	–	BV 500				

This chart will help you choosing the best heater for your needs. The selection can be made in two ways: you can either refer to the power required (Btu/h column) and choose the relevant heaters or refer to the room dimension (cubic feet column) and choose the correct heater according to level of insulation.

This calculation is intended for a temperature increase of 86 degrees: for lower or higher increases, the result will change in proportion. Example: for a temperature increase of 10 degrees it is required only 1/3 of the power indicated in the chart.

For a finer calculation you can refer to the following formula:

$$V \times \Delta T \times K / 3.97 = \text{Btu/h}$$

V is the volume to be heated in cubic feet
 ΔT is the difference between the existing and desired temperature in F
 K is the dispersion coefficient (from 0.5 to 3.5)

- K=0.5 Well insulated buildings (houses and offices)
- K=1.5 Moderately insulated buildings (garages)
- K=2.5 Poorly insulated buildings (old houses and cellars)
- K=3.5 Not insulated buildings (wood or corrugated metal buildings, greenhouses)

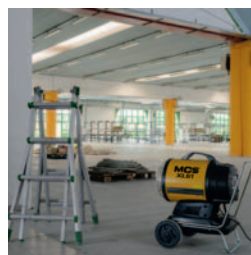
1 kW = 860 kcal/h
 1 kcal/h = 3.97 Btu/h
 1 kW = 3412 Btu/h
 1 Btu/h = 0.252 kcal/h

HEATING SOLUTIONS FOR: AGRICULTURE, CONSTRUCTION, EVENTS, WORKSHOPS & GARAGES, INDUSTRY & WAREHOUSES

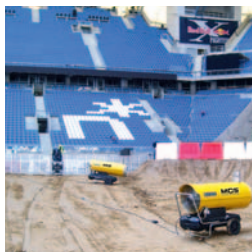
AGRICULTURE



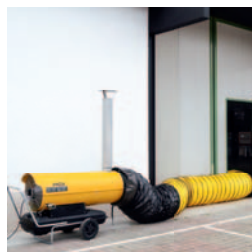
CONSTRUCTION



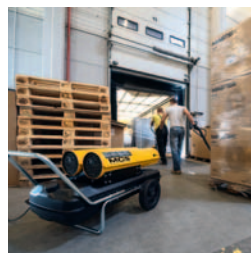
EVENTS



WORKSHOPS & GARAGES



INDUSTRY & WAREHOUSES





WEBSITE

MCS ITALY: Via Gardesana 11, 37010 Pastrengo (VR), ITALY, (0039) 045 6770533, info@mcsitaly.it

MCS CENTRAL EUROPE: ul. Magazynowa 5a, 62-023 Gądk, POLAND, (0048) 61 654 4000, office@mcs-ce.pl

MCS RUSSIA: Transportnaya 22 vl 2, 142802 Stupino, RUSSIA, tel./fax (007) 495 642 444 8, info@mcsrus.ru

MCS CHINA: Unit A1, No. 1515 Jinshao Rd, Baoshang Industrial Zone, SHANGHAI, 200949, (0086) 21 - 61486668, office@mcs-china.cn

EURITECSA: C/Calabozos, 6 Polígono Industrial, 28108 Alcobendas (Madrid), SPAIN, (0034) 916614500, euritecsa@euritecsa.es

For further information, please contact your distributor:

<div></div>	<div></div>
<div></div>	<div></div>

Data, descriptions and pictures are for indication only and absolutely not binding.
The Company reserves the right to modify or improve them without prior notice.