

# FORCED AIR SPACE HEATERS NORTH AMERICA RANGE



MADE IN ITALY

CATALOG 2024







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We are a world wide leader in the professional portable heater market in the construction, equipment rental, agricultural and military sectors. All our products are completely manufactured in our Headquarters in Italy, Cherasco (CN). Our facility covers more than two hundred thousand square feet with corporation offices, R&D, testing lab, two warehouses and state of the art production plant. For the North American market we manufacture our heaters cus-

tomized on our customer's specifications mainly under private label. We offer a comprehensive line of heaters ranging from 100K to 1M Btu/h in size in both oil and gas version. For more than 15 years we have been developing our products specifically for the North American market need. All our heaters are CSA approved for both USA and Canada. To insure high quality standard all the components and incoming material are quality controlled

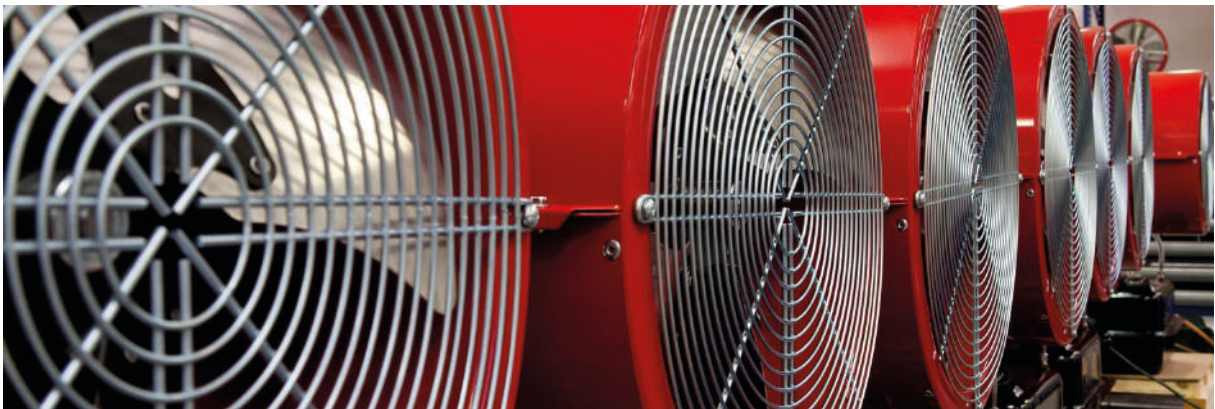
and every manufacturing step is in compliance with the UNI EN ISO 9001:2008 quality control procedures. These are a few of the reasons why BIEMMEDUE is today one of the most important manufactures of portable heaters in the world.

COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV  
ISO 9001



## ABOUT US





2019 will be a very important year for Biemmedue . In October we will celebrate 40th anniversary of the company. Founded in 1979, Biemmedue has been meeting the needs of its customers for 40 years, designing and building machines that have evolved over the years and which continues to do so today to keep pace with the times but not only: "we like to think to be able to anticipate the needs of our customers " . Via our experience over all these years with models, studies, trials, mistakes and successes that today we are designing the path of the future, to continue with the same spirit that has pushed us here.



Foundation of BIEMMEDUE S.p.A. (Bonfante Elio, Marengo Franco, Marengo Luciano), a company distributing the ARCOM SPA range (Hot air generators and Hydro cleaners) in Piedmont, Liguria and Valle D'Aosta.



Partnership with Mr. Charles Wittmer and internationalization of sales of BIEMMEDUE products worldwide.



The second Oklima line join the Arcotherm hot air generator line.

1979

1982

1984

1992

1994

2007



BIEMMEDUE S.p.A. takes over the ARCOM SPA legacy and starts the production of Hot air generators and Hydro cleaners for the local and Italian market.



The production of the PROFESSIONAL DEHUMIDIFIER is added to hot air generator and pressure washer.



Achievement of the certification UNI EN ISO 9001, now UNI EN ISO 9001: 2015.





Acquisition of the 100% of shares of Biemmedue S.p.A. by the brothers Mariano and Pier Antonio Costamagna.



Winter Olympic Games Turin 2006 Biemmedue is the exclusive supplier to General Electric Co. (main sponsor of the event) of space heaters and related accessories.



Acquisition of the Solo S.r.l. in Codogno (LO), a company producing commercial vacuum cleaners, industrial vacuum cleaners and single disc brush units.



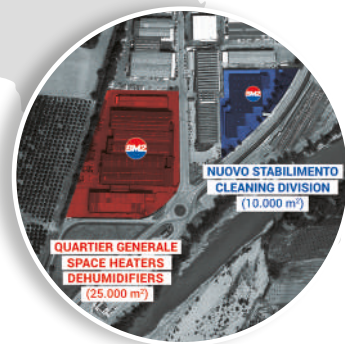
Acquisition of Batclean S.r.l. company in of Summaga di Portogruaro (VE), a company producing motorized sweepers.



Obtaining of the CSA (Canadian Standard Association) approval for the export of hot air generators in the North American market (United States and Canada).



Moving of the whole cleaning division in Cherasco: modern, bigger and in front of the company's head quarters.







# CONSTRUCTION AND EVENTS



## CONSTRUCTION AND EVENTS

In this sector Biemmedue offer portables heaters for temporary and emergency heating, outdoors or indoors affordable solutions and, most importantly, without the need of installation. These heaters are easy to handle and move, sturdy, reliable, and flexible, making them perfect for the construction sector (job-sites, building projects, etc.) and in temporary structures or events (shelters, tents, etc.).

These heaters are generally both direct or indirect fired models (diesel or gas) with wheels and/or handles, and an exhaustive set of accessories for a wide variety of applications.

For Construction and Events, Biemmedue suggests the following models:



**FIRE:** infrared diesel heater (direct-fired), with embedded burner with dedicated fan for combustion air. The FIRE models are characterized by the absence of moving air: the flame generated by the burner heats the front plate that reaches high temperature. This helps to burn and stop all combustion residues, guaranteeing a clean combustion and 100% efficiency. They are used for heating very large spaces (warehouses, industrial sheds, yards, open spaces, etc.) or where suspended dust particles must be avoided.



**GE and GE HC:** diesel direct-fired portable heaters with embedded burner with combustion air obtained from the main air fan. The GE heaters generate hot air and the combustion residues produced by the burner are expelled with the hot air and contribute to its heating. They transform all of nominal input power (from the fuel) into heat, 100% efficiency. They are the most economical models available in terms of upfront cost and consumption. On the other hand, they can be used only in well-ventilated rooms and where indirect-fired heaters are not required by law.



**GE/N:** gas (propane or natural gas) direct-fired portable heaters with embedded burner with combustion air obtained from the main ventilation fan. The GE/N heaters generate hot air and the combustion residues produced by the burner are expelled with the hot air and contribute to its heating. They transform all of nominal input power (from the fuel) into heat, 100% efficiency. They are the most economical models available in terms of upfront cost and consumption. On the other hand, they can be used only in well-ventilated rooms and where indirect-fired heaters are not required by law.



**EC and EC HC:** diesel indirect-fired portable heaters with embedded burner with combustion air obtained from the main ventilation fan. The EC heaters feature a heat exchanger that contains the flame and expels fumes throughout a chimney connected to the outside. Being indirect-fired, they can be operated indoor and can also be ducted. On the other hand, they have higher upfront costs and about 85% US efficiency due to the heat lost through the chimney.



**PHOEN HC:** heavy-duty diesel indirect fired portable heaters with embedded burner with dedicated fan for combustion air. The PHOEN HC heaters feature a heat exchanger that contains the flame and expels fumes throughout a chimney connected to the outside. Being indirect-fired, they can be operated indoor and can also be ducted. On the other hand, they have higher upfront costs and about 85% US efficiency due to the heat lost through the chimney.

**AVAILABILITY  
TO BE AGREED**



**PHOEN/N:** heavy-duty gas (propane or natural gas) indirect-fired portable heaters with embedded burner with dedicated fan for combustion air. The PHOEN/N heaters feature a heat exchanger that contains the flame and expels fumes throughout a chimney connected to the outside. Being indirect fired, they can be operated indoor and can also be ducted. On the other hand, they have higher upfront costs and about 85% US efficiency due to the heat lost through the chimney.



**JUMBO:** direct fired heater with considerable size, ideal for large buildings. It features external burner that can be chosen between gas (GPL or natural gas) and diesel. Equipped with axial fan, it is a good compromise for efficiency (90%), low noise and static pressure, characteristic particularly usefully where ducts are needed.



**TITAN:** direct fired heater with considerable size, ideal for large buildings. It features external burner that can be chosen between gas (GPL or natural gas) and diesel. Equipped with centrifugal fan that guarantees low noise operations as well as high static pressure (300 Pa), that makes it suitable in installation with long ducts. The combustion chamber features 5-loop smoke technology to ensure 96% thermal efficiency.

**AVAILABILITY  
TO BE AGREED**



**SCUDO:** derivation from the TITAN model, strong and sturdy space heaters, particularly suitable for the heating and drying of large spaces, technical structures such as construction sites, work places, and also residential areas.

**AVAILABILITY  
TO BE AGREED**



**EK:** BM2 series fan-forced electric heaters provides industry professionals with climate control needed for indoor heating applications. No refueling or monitoring units while in use and can also be ducted. Operates with no open flame, no danger of carbon monoxide poisoning and no noxious gas odors. EK heaters transform all of nominal input power (from the electricity) into heat, 100% efficiency. They are made of steel with a powder color finish for long lasting. Each unit is equipped with overheat protection, stays cool even when the heater is running and an internal adjustable thermostat provide optimal performance. UL Approved. Available in varying dimensions, BTU, CFM and 120, 240 voltage.



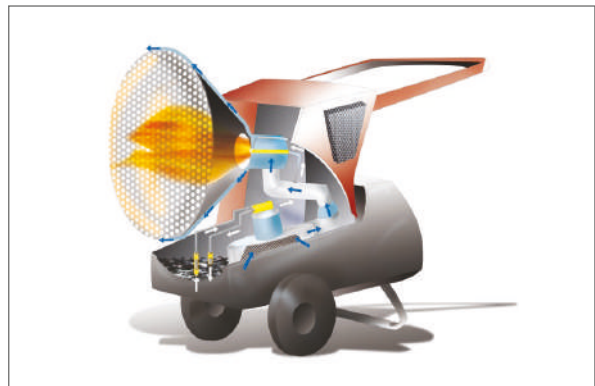
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# FIRE


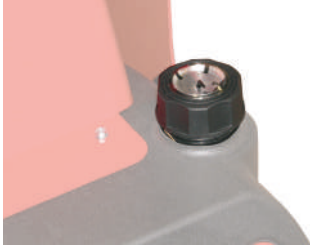

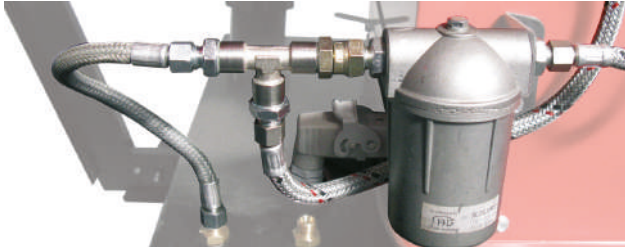
INFRARED PORTABLE HEATERS

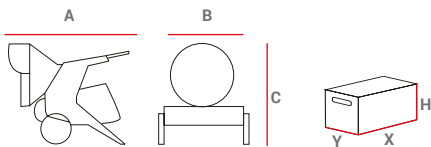
## FIRE - INFRARED PORTABLE HEATERS

- CSA approved for construction US-C
- Direct heat flow by radiation with no air movement
- Low noise level
- Built-in oil burner with gear pump
- Electronic flame control unit
- No supervision required: can be controlled by thermostat, humidistat or timer
- 1ft power cord
- AISI 430 stainless steel combustion chamber
- Metallic forced air insulation pocket between the combustion chamber and the external protection cone
- Automatic post-ventilation cycle to cool down the combustion chamber
- Fuel lines in hydrocarbon-resistant rubber wire-mesh protected
- Shockproof polythene fuel tank
- Screw-on fuel cap
- Fuel tank drain plug
- Possibility of directing the cone up with locking mechanism
- Single point lift bail
- Oil Filter included (optional pre-heated oil filter)
- Overheating thermostat (safety device: turn off unit and requires manual reset)
- 12" (155) - 10" (115) reinforced plastic wheels
- Floor protection sliding shield
- Stainless steel frontal bumper



ACCESSORIES ON DEMAND

HEAVY DUTY THERMOSTAT (20/140°F) 30 ft CABLE, 90° PLUG	FUEL LEVEL GAUGE	PRE-HEATED OIL FILTER
		
Cod. 02AC582	Cod. 02AC583	Mod. FIRE 155 Cod. 02AC513
SINGLE FUEL LINE KIT		
		Single fuel line kit: allows to recirculate hot oil from the return line back into the pre heated filter to maintain oil warmer in the circuit and favorite cold starts and better burning performance in extreme cold temperature
Cod. 02AC597		



WEIGHTS AND DIMENSIONS MACHINE					PACKAGING			
MOD	A	B	C	Net	X	Y	H	Gross
	[in]	[in]	[in]	[lb]	[in]	[in]	[in]	[lb]
FIRE 115	35.2	21	31.9	92.6	29.1	22.4	27.7	104
FIRE 155	54.8	31.4	41.4	161	40.4	27.8	41.0	200

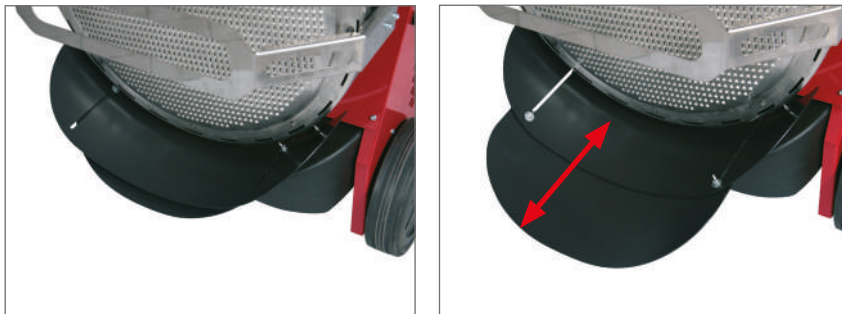
		FIRE 115	FIRE 155
code number		06VA203	06VA201
max power	BTU/h	115,159	154,237
fuel consumption	US gal/h	0.849	1.11
power supply	V, ph, Hz	120, 1, 60	120, 1, 60
fan motor power	Hp (rpm)	1/7 (3,300)	1/4 (3,300)
current rating	amps	2.15	4.1
tank capacity	US gal	11.35	17.2
run time 2nd stg - 1st stg	hour	13.4	16
unit/pallet	qty.	6	1
unit/container 20'	qty.	84	32
unit/container 40' and 40' HC	qty.	180	68



### BM2 INNOVATION

The innovation of the FIRE infrared heater, lies in the elimination of the refractory material cone, that surround the conical combustion chamber, typical of other competitor's units. Our heater features a metallic forced air insulation pocket between the combustion chamber and the external protection cone. The cooling air is blown through the pocket by the burner fan. This innovative technology overcame the well know problem of the fragility and brittleness of the ceramic cone. Moreover, there is a relevant improvement in the effectiveness of cooling of the cone.

### Lower protection sliding shield to avoid the floor overheating



### Possibility of directing the cone up and down with locking mechanism







# GE - GE HC



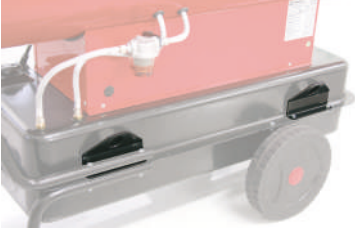
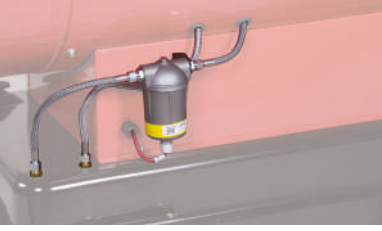
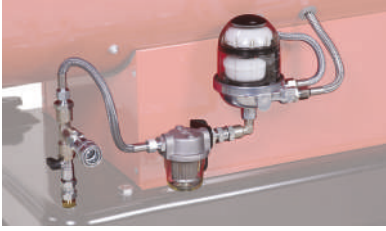
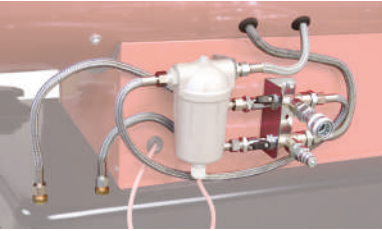

DIRECT-FIRED PORTABLE HEATERS

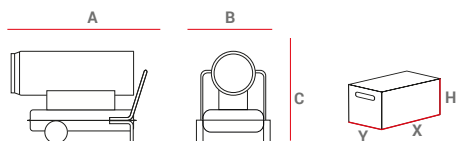
## GE - GE HC DIRECT-FIRED SPACE HEATERS

- CSA approved for construction US-C
- Built-in oil burner with gear pump
- Electronic flame control unit
- Combustion air pressure switch (safety device: turns off unit and requires manual reset)
- No supervision required: can be controlled by thermostat, humidistat or timer
- 1ft power cord
- AISI 430 stainless steel combustion chamber
- Automatic post ventilation cycle to cool down the combustion chamber
- Fuel lines in hydrocarbon-resistant rubber wire-mesh protected
- Overheat thermostat
- Two size steel fuel tank available with upgraded tank, HC version (High Capacity tank)
- Bayonet-type fuel tank cap
- Fuel tank drain plug
- Oil filter; pre-heated oil filter (GE 400 - GE 400 HC - GE 600)
- 10" pneumatic tire



## ACCESSORIES ON DEMAND

HEAVY DUTY THERMOSTAT (20/140°F) 30 ft CABLE, 90° PLUG	FUEL LEVEL GAUGE	LIFTING BRACKETS (4 PIECES)
		
<b>Cod. 02AC582</b>	<b>Mod. GE 360 - GE 400</b> <b>Cod. 02AC508</b> <b>Mod. GE 400 HC - GE 600</b> <b>Cod. 02AC510</b>	<b>Cod. 02AC511</b>
PRE-HEATED OIL FILTER	EXTERNAL FUEL TANK CONNECTION KIT	EXTERNAL FUEL TANK CONNECTION KIT
		
<b>Cod. 02AC513</b>	<b>Mod. Single pipe with de-aerator</b> <b>Cod. 02AC632</b>	<b>Mod. Double pipe</b> <b>Cod. 02AC512</b>
SINGLE FUEL LINE KIT		
	<p>Single fuel line kit: allows to recirculate hot oil from the return line back into the pre-heated filter to maintain oil warmer in the filter and favorite cold starts and better burning performance in extreme cold temperature</p>	
<b>Cod. 02AC597</b>		



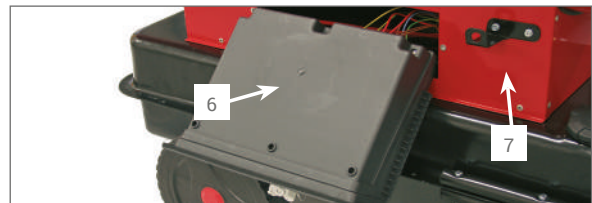
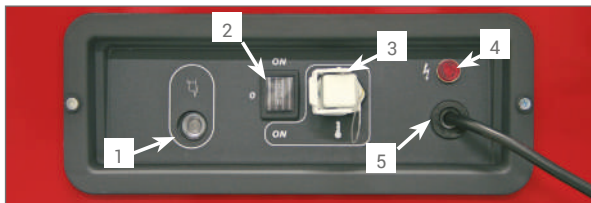
WEIGHTS AND DIMENSIONS MACHINE					PACKAGING			
MOD	A	B	C	Net	X	Y	H	Gross
	[in]	[in]	[in]	[lb]	[in]	[in]	[in]	[lb]
GE 360	56.4	22.5	35.6	142	51.6	20.1	38	186
GE 360 HC	56.4	26.4	35.6	153	55.1	21.9	38	197
GE 400	55.6	28.8	42.5	190	66.5	24.4	41.4	245
GE 400 HC	55.6	28.8	44	212	66.5	24.4	44.1	267
GE 600	68.5	28.8	44	243	66.5	24.4	44.1	298

## GE - GE HC DIRECT-FIRED SPACE HEATERS

		GE 360	GE 400	GE 600
code number		02GE207	02GE205	02GE206
max power	BTU/h	361,439	396,376	599,524
fuel consumption	US gal/h	2.6	2.83	4.32
heated airflow	cfm	1,795	2,500	2,800
power supply	V, ph, Hz	120, 1, 60	120, 1, 60	120, 1, 60
fan motor power	Hp (rpm)	5/8 (3,300)	1 (1,700)	1(1,700)
current rating	amps	6	7,5	11,1
tank capacity	US gal	27.7	27.7	35.6
run time	hour	11	10	8
unit/pallet	qty.	1	1	1
unit/container 20'	qty.	28	24	24
unit/container 40' and 40'HC	qty.	58	52	52

		GE 360 HC	GE 400 HC
code number		02GE257	02GE255
max power	BTU/h	361,439	396,376
fuel consumption	US gal/h	2.6	2.83
heated airflow	cfm	1,795	2,500
power supply	V, ph, Hz	120, 1, 60	120, 1, 60
fan motor power	Hp (rpm)	5/8 (3,300)	1 (1,700)
current rating	amps	6	7,5
tank capacity	US gal	35.6	35.6
run time	hour	14	13
unit/pallet	qty.	1	1
unit/container 20'	qty.	28	24
unit/container 40' and 40'HC	qty.	58	52

### Dust and water proof electric panel



#### Legend

- 1 Reset button with lock out (red), working (green) and stand-by (orange) indicator light
- 2 Three way control switch:
  - position 0 for stop
  - position 1 for "continuous" on
  - position 2 for ON with remote thermostat, humidostat, timer
- 3 Socket for remote thermostat, humidostat, timer
- 4 Voltage warning light (connected to the mains)
- 5 Power cord
- 6 Plastic cover
- 7 Power cord bracket

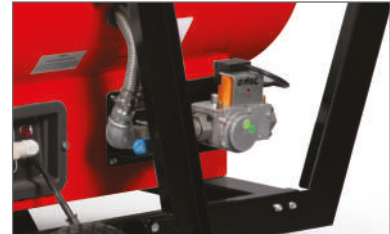


# GE/N

DIRECT-FIRED LOW PRESSURE GAS PORTABLE HEATERS (DUCTABLE)

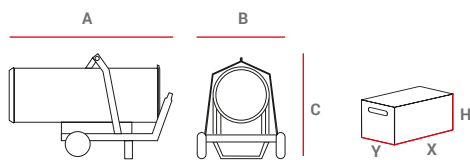
## GE/N - DIRECT-FIRED LOW PRESSURE GAS PORTABLE HEATERS (DUCTABLE)

- CSA approved for construction, greenhouses and brooders US-C
- Very low particulate emission (CO, NOx, Ethylene and Ether)
- Built-in gas burner (dual fuel: natural gas or propane)
- No supervision required: can be controlled by thermostat, humidistat or timer
- High-grade powder coated design
- Automatic ignition
- Flame monitored by ionisation probe
- Combustion air pressure switch (safety device: turns off unit and requires manual reset)
- Overheating thermostat (safety device: turns off unit and requires manual reset)
- Gas train: gas filter, gas governor, gas valve and gas pressure test points
- Two post ventilation modes (fan always on or 30 sec temporized) selectable by switch on control board
- Ventilation only mode (fan can be operated when burner is off)
- Single point lift bail
- Back-pressure air switch to prevent bad flexible duct installation
- Electric control panel
- Removable front disk for easy maintenance
- 10" pneumatic wheels
- Manual ball valve to shut off gas to the burner and easily switch between natural gas and propane. Includes safety locking device to keep valve from moving once set.



## ACCESSORIES ON DEMAND

HEAVY DUTY THERMOSTAT (20/140°F) 30 ft CABLE, 90° PLUG	ONE-WAY DUCT ADAPTER	FLEXIBLE AIR DUCT 20 ft LONG
<b>Cod.</b> 02AC582	<b>Mod.</b> GE/N 250 - 16" <b>Cod.</b> 02AC592 <b>Mod.</b> GE/N 400 - 20" <b>Cod.</b> 02AC589	<b>Mod.</b> 16" <b>Cod.</b> 02AC564 <b>Mod.</b> 20" <b>Cod.</b> 02AC566



WEIGHTS AND DIMENSIONS MACHINE					PACKAGING				
MOD	A	B	C	Net	X	Y	H	Gross	
	[in]	[in]	[in]	[lb]	[in]	[in]	[in]	[lb]	
GE/N 250	45.4	31.1	21.7	139	42.3	21.9	29.5	172	
GE/N 400	60.6	34.4	39	233	57.7	24.4	32.6	267	

		GE/N 250	GE/N 400
code number		03GA201	03GA202
max power NG/LP	BTU/h	241,520	403,752
fuel consumption NG	cfh	241,520	381,348
fuel consumption LP	cfh	88.98	145.12
heated airflow	cfm	2,766	4,120
temperature rise (@68 °F)	°F	86	103
max length flex. duct	ft	50	50
max air static pressure available	Pa	150	140
power supply	V, ph, Hz	120, 1, 60	120, 1, 60
fan motor power	hp (rpm)	5/8 (3,300)	1 (1,700)
current rating	amps	5	8.5
unit/pallet	qty.	1	1
unit/container 20' / 40' / 40' HC	qty.	60/129/129	26/54/81



# EC - EC HC

INDIRECT-FIRED PORTABLE HEATERS





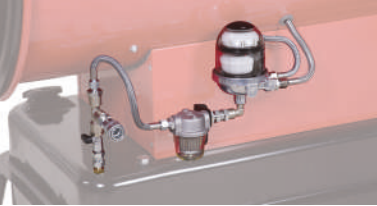
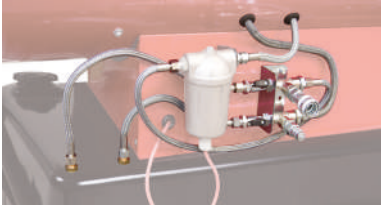


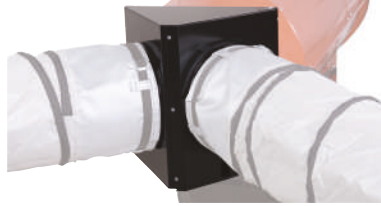



## EC - EC HC: INDIRECT-FIRED PORTABLE HEATERS

- CSA approved for construction US-C
- Built-in oil burner with Danfoss gear pump
- No supervision required: can be controlled by thermostat, humidistat or timer
- 1ft power cord
- AISI 430 stainless steel combustion chamber with four-pass heat exchanger technology (EC 200 - EC 300)
- Automatic post ventilation cycle to cool down the combustion chamber
- Electronic flame control unit
- Overheating thermostat (safety device: turn off unit and requires manual reset)
- Fuel lines in hydrocarbon-resistant rubber wire-mesh protected
- Steel fuel tank also available with one size upgraded tank (HC version)
- Bayonet-type fuel tank cap
- Fuel tank drain plug
- Electric control panel
- Oil filter; pre-heated oil filter (EC 200 - EC 300)
- Combustion air pressure switch (safety device: turns off unit and require manual reset)
- 10" pneumatic wheels
- Single fuel line kit: allows to recirculate hot oil from the return line back into the pre-heated filter to maintain oil warmer in the filter and favorite cold starts and better burning performance in extreme cold temperature

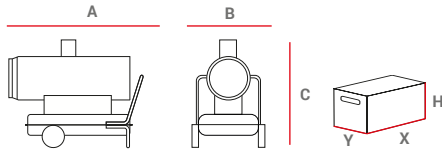




ACCESSORIES ON DEMAND

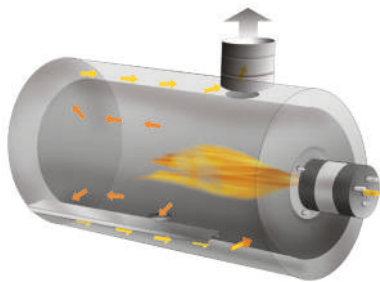
HEAVY DUTY THERMOSTAT (20/140°F) 30 ft CABLE, 90° PLUG	FUEL LEVEL GAUGE	LIFTING BRACKETS (4 PIECES)
		
Cod. 02AC582	Mod. EC 100 Cod. 02AC507	Cod. 02AC511
	Mod. EC 100 HC - EC 200 - EC 200 HC - EC 300 Cod. 02AC508	
	Mod. EC 300 HC Cod. 02AC510	
PRE-HEATED OIL FILTER	EXTERNAL FUEL TANK CONNECTION KIT	EXTERNAL FUEL TANK CONNECTION KIT
		
Cod. 02AC513	Mod. Single pipe with de-aerator Cod. 02AC632	Mod. Double pipe Cod. 02AC512
SINGLE FUEL LINE KIT	ONE-WAY DUCT ADAPTER	TWO-WAY DUCT ADAPTER
		
Cod. 02AC597	Mod. EC 100 - 12" Cod. 02AC501	Mod. EC 200 - 12"+12" Cod. 02AC546
	Mod. EC 200 - 14" Cod. 02AC502	
	Mod. EC 300 - 16" Cod. 02AC503	Mod. EC 300 - 12"+12" Cod. 02AC505
FLEXIBLE AIR DUCT 20 ft LONG	AIR INLET DUCT ADAPTER	AIR INLET FLEXIBLE DUCT 20 ft LONG
T MAX 212° F 		
Mod. EC 100 - 12" Cod. 02AC562	Mod. EC 200 - 17" Cod. 02AC678	Mod. EC 200 - 17" Cod. 02AC647
Mod. EC 200 - 14" Cod. 02AC563		Mod. EC 300 - 20" Cod. 02AC795
Mod. EC 300 - 16" Cod. 02AC564		Mod. All - clip for flexible duct (16" - 30") Cod. 02AC663

## EC - EC HC: INDIRECT-FIRED PORTABLE HEATERS



WEIGHTS AND DIMENSIONS MACHINE					PACKAGING			
MOD	A	B	C	Net	X	Y	H	Gross
	[in]	[in]	[in]	[lb]	[in]	[in]	[in]	[lb]
EC 100	49.3	20	30.5	120	45.9	19.9	28.2	143
EC 200	56.5	21.9	37	207	51.6	20.1	38	238
EC 300	68.5	27.6	41.3	275	66.5	24.4	41.4	330
EC 100 HC	49.3	20	33.3	142	49.3	19.9	28.3	165
EC 200 HC	56.5	27.6	37	220	55.1	21.9	38	251
EC 300 HC	65.5	27.6	44.1	297	66.5	24.4	44.09	352

		EC 100	EC 200	EC 300	EC 100 HC	EC 200 HC	EC 300 HC
code number		02EC202	02EC203	02EC204	02EC252	02EC253	02EC254
heat input	BTU/h	112,141	204,873	293,982	112,141	204,873	293,982
heat output	BTU/h	94,759	183,362	258,704	94,759	183,362	258,704
fuel consumption	US gal/h	0.81	1.48	2.17	0.81	1.48	2.17
heated airflow	cfm	1,020	1,530	2,530	1,020	1,530	2,530
temperature rise (@ 64°F)	°F	95	136	126	95	136	126
power supply	V, ph, Hz	120, 1, 60	120, 1, 60	120, 1, 60	120, 1, 60	120, 1, 60	120, 1, 60
fan motor power	Hp (rpm)	1/4 (3,300)	5/8 (3,300)	1 (1,700)	1/4 (3,300)	5/8 (3,300)	1 (1,700)
current rating	amps	4.05	7.65	11.80	4.05	7.65	11.80
max lenght flex. duct (one-way)	ft	25	48	75	25	48	75
max lenght flex. duct (two-way)	ft	--	24	35	--	24	35
flue size	in	5.9	5.9	5.9	5.9	5.9	5.9
tank capacity	US gal	11	17.2	27.7	17.2	27.7	35.6
run time	hour	14	14	13	21	22.4	16.4
unit/pallet	qty.	6	1	1	6	1	1
unit/container 20'	qty.	54	38	24	54	28	24
unit/container 40'	qty.	132	82	52	132	58	52
unit/container 40' hc	qty.	132	82	52	132	58	52



### FOUR-PASS HEAT EXCHANGER TECHNOLOGY

All BIEMMEDUE combustion chambers are manufactured using AISI 430 stainless steel with aluminised steel heat exchanger to increase performance. The new four-pass heat exchanger technology allows exhaust gases to increase heat exchange with the cooling air and obtain maximum thermal efficiency. Our heaters are the most efficient in the industry. Available on EC 200, EC 300 and all PHOEN heaters.

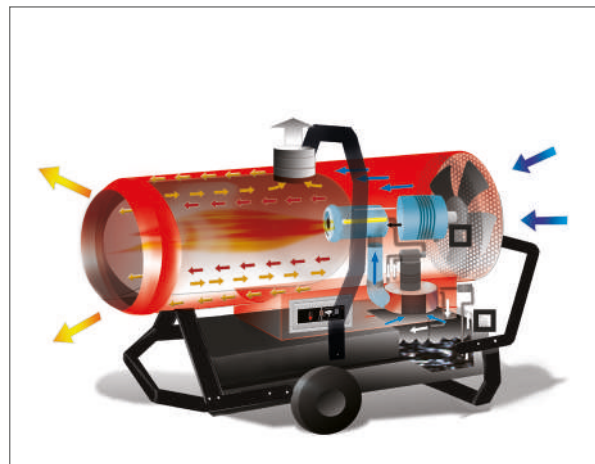


# PHOEN HC




INDIRECT-FIRED PORTABLE HEATER WITH DEDICATED  
TWO-STAGE BURNER

## PHOEN HC: INDIRECT-FIRED PORTABLE HEATER WITH DEDICATED TWO-STAGES BURNER

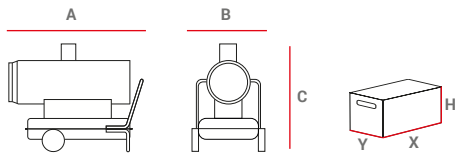
- CSA approved for construction US-C
- Separated burner blower
- Two-stage dedicated burner (low and high fire selector)
- No supervision required: can be controlled by thermostat, humidistat or timer
- 1ft power cord
- AISI 430 stainless steel combustion chamber with four-pass heat exchanger technology
- Convection fan is controlled by thermostat that measures combustion chamber temperature
- Combustion chamber pre-heating cycle
- Electronic flame control unit
- Combustion air pressure switch (safety device: turns off unit and requires manual reset)
- Fuel lines in hydrocarbon-resistant rubber wire-mesh protected
- Overheat thermostat
- Bayonet-type fuel tank cap
- Fuel tank drain plug
- Ventilation only mode (fan can be operated when burner is off)
- Pre-heated oil filter
- Anti-shock frame with foldable handle
- Single point lift bail and forklift pockets
- 16" pneumatic wheels (16" for HC version)
- Optional return air adapter for inside warm air recirculation
- Heater is shipped fully assembled
- Single fuel line kit: allows to recirculate hot oil from the return line back into the pre-heated filter to maintain oil warmer in the filter and favorite cold starts and better burning performance in extreme cold temperature



## ACCESSORIES ON DEMAND

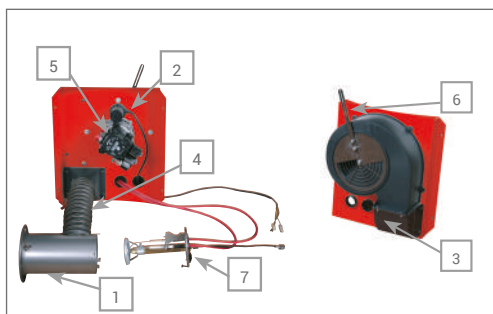
<p><b>HEAVY DUTY THERMOSTAT (20/140°F) 30 ft CABLE, 90° PLUG</b></p>	<p><b>FUEL LEVEL GAUGE</b></p>	<p><b>FRESH AIR INTAKE DUCT ADAPTER</b></p>
		
<p><b>Cod. 02AC582</b></p>	<p><b>Cod. 02AC510</b></p>	<p><b>Mod. 4" Cod. 02AC535</b>  <b>Mod. Duct - 4", l=16,5 ft Cod. 02AC577</b></p>
<p><b>PRE-HEATED OIL FILTER</b></p>	<p><b>EXTERNAL FUEL TANK CONNECTION KIT</b></p>	<p><b>EXTERNAL FUEL TANK CONNECTION KIT</b></p>
		
<p><b>Cod. 02AC575</b></p>	<p><b>Mod. Single pipe with de-aerator Cod. 02AC632</b></p>	<p><b>Mod. Double pipe Cod. 02AC512</b></p>
<p><b>SINGLE FUEL LINE KIT</b></p>	<p><b>ONE-WAY DUCT ADAPTER</b></p>	<p><b>TWO-WAY DUCT ADAPTER</b></p>
		
<p><b>Cod. 02AC597</b></p>	<p><b>Mod. 20" Cod. 02AC504</b></p>	<p><b>Mod. 16"+16" Cod. 02AC506</b></p>
<p><b>THREE-WAY DUCT ADAPTER</b></p>	<p><b>AIR INLET DUCT ADAPTER WITH SLIDING DOOR + FLEXIBLE AIR INLET DUCT</b></p>	<p><b>FLEXIBLE AIR DUCT 20 ft LONG</b></p>
		 <p>T MAX 212° F</p>
<p><b>Mod. 12"+12"+12" Cod. 02AC579</b></p>	<p><b>Mod. 20" Cod. 02AC558</b>  <b>Mod. Duct - 20" Cod. 02AC795</b>  <b>Mod. All - clip for flexible duct (16" - 30") Cod. 02AC663</b></p>	<p><b>Mod. 12" Cod. 02AC562</b>  <b>Mod. 16" Cod. 02AC564</b>  <b>Mod. 20" Cod. 02AC566</b></p>

# PHOEN HC INDIRECT-FIRED PORTABLE HEATER WITH DEDICATED TWO-STAGE BURNER



WEIGHTS AND DIMENSIONS MACHINE					PACKAGING			
MOD	A	B	C	Net	X	Y	H	Gross
	[in]	[in]	[in]	[lb]	[in]	[in]	[in]	[lb]
PHOEN400HC	85	33.9	53.3	456	85.6	29.2	52	511

		PHOEN 400 HC
code number		02EC260
heat input 2nd stage	BTU/h	411,905
heat input 1st stage	BTU/h	272,189
heat output 2nd stage	BTU/h	354,239
heat output 1st stage	BTU/h	231,360
fuel consumption 2nd stg - 1st stg	US gal/h	2.97-1.96
airflow	cfm	3,250
temperature rise (@64°F) 2nd stg - 1st stg	°F	132-108
power supply	V, ph, Hz	120, 1, 60
fan motor power	Hp (rpm)	1(1,700)
burner motor power	Hp (rpm)	1/4 (3,300)
current rating	amps	13
max lenght flex. duct (one-way/two way)	ft	100/60
max lenght air inlet flex. duct (one-way)	ft	30
max lenght fresh air intake duct	ft	15
flue size	in	6
tank capacity	US gal	57
run time 2nd stg - 1st stg	hour	29 - 19
unit/pallet	qty.	1
unit/container 20'	qty.	7
unit/container 40'	qty.	16
unit/container 40' hc	qty.	31



## DEDICATED TWO-STAGE OIL BURNER

The Phoen line of heaters features a built-in burner specifically designed and optimized for cylindrical combustion chambers typical of our can-non-type heaters. The burner features a two-stage oil pump and a separated combustion air blower. Combined to the four-pass heat exchanger, enables to run the unit at 85% efficiency, one of the highest in the industry.

Legend

- 1 Combustion head
- 2 Fan-motor burner
- 3 Burner fan
- 4 Flexible hose connecting fan-motor and combustion head
- 5 Double stage diesel pump (Suntec)
- 6 Air regulation flap
- 7 Electrodes - Nozzle



## FOLDABLE HANDLE

Anti-shock frame with foldable handle (PHOEN 400 HC)

AVAILABILITY  
TO BE AGREED

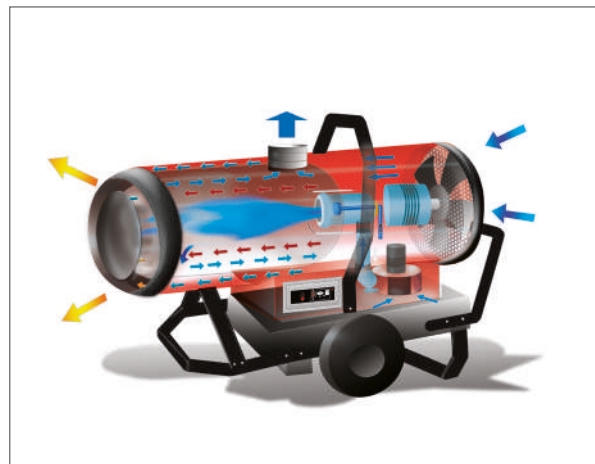


# PHOEN/N

INDIRECT-FIRED HEATERS WITH DEDICATED LOW PRESSURE  
GAS BURNER

## PHOEN/N - INDIRECT-FIRED HEATERS WITH DEDICATED LOW PRESSURE GAS BURNER






- CSA approved for construction, greenhouses and brooders US-C
- BM2 dedicated burner, with separated burner blower
- No supervision required: can be controlled by thermostat, humidistat or timer
- 1ft power cord
- AISI 430 stainless steel combustion chamber with four-pass heat exchanger technology
- Convection fan is controlled by thermostat that measures combustion chamber temperature
- Combustion chamber pre-heating cycle
- Electronic flame control unit
- Combustion air pressure switch (safety device: turns off unit and requires manual reset)
- Ionization flame detector
- Gas train: gas filter, gas governor, gas valve, gas pressure test points
- Ventilation only mode (fan can be operated when burner is off)
- Lifting and suspending brackets
- Anti-shock frame with foldable handle
- Single point lift bail and forklift pockets
- 16" pneumatic wheels for easy mobility
- Optional return air adapter for inside warm air recirculation
- Heater is shipped fully assembled





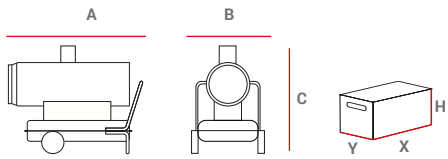
PHOEN/N - INDIRECT-FIRED HEATERS WITH DEDICATED LOW PRESSURE GAS BURNER

ACCESSORIES ON DEMAND

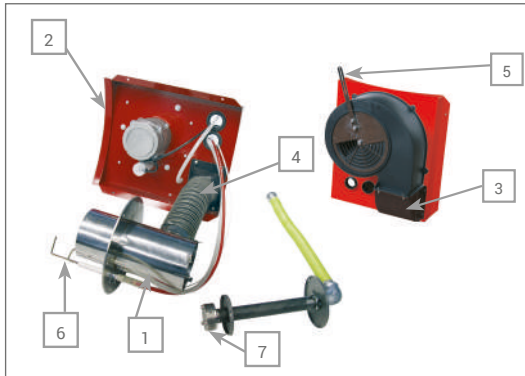
HEAVY DUTY THERMOSTAT (20/140°F) 30 ft CABLE, 90° PLUG	FRESH AIR INTAKE DUCT ADAPTER	ONE-WAY DUCT ADAPTER
		
<b>Cod.</b> 02AC582	<b>Cod.</b> 02AC535 <b>Mod.</b> Duct - 4", l=16,5 ft <b>Cod.</b> 02AC577	<b>Mod.</b> 20" <b>Cod.</b> 02AC504
TWO-WAY DUCT ADAPTER	THREE-WAY DUCT ADAPTER	FLEXIBLE AIR DUCT 20 ft LONG
		 T MAX 212° F
<b>Mod.</b> 16"+16" <b>Cod.</b> 02AC506	<b>Mod.</b> 12"+12"+12" <b>Cod.</b> 02AC579	<b>Mod.</b> 12" <b>Cod.</b> 02AC562 <b>Mod.</b> 16" <b>Cod.</b> 02AC564 <b>Mod.</b> 20" <b>Cod.</b> 02AC566
AIR INLET DUCT ADAPTER WITH SLIDING DOOR	FLEXIBLE AIR INLET DUCT	
		
<b>Mod.</b> 20" <b>Cod.</b> 02AC558	<b>Mod.</b> Duct - 20" <b>Cod.</b> 02AC795 <b>Mod.</b> All - clip for flexible duct (16" - 30") <b>Cod.</b> 02AC663	

		PHOEN/N 380
code number		03GP261
heat input	BTU/h	380,548
heat output	BTU/h	329,174
fuel consumption natural / propane	cfh	355.97/147.24
heated airflow	cfm	3,250
temperature rise (@64°F)	°F	126
power supply	V, ph, Hz	120, 1, 60
fan motor power	Hp (rpm)	1 (1,700)
burner motor power	Hp (rpm)	1/4 (3,300)
current rating	amps	12.5
max lenght flex. duct (one-way)	ft	100
max lenght flex. duct (two-way)	ft	60
max lenght air inlet flex.duct (one-way)	ft	30
max lenght fresh air intake duct	ft	15
flue size	in	6
unit/pallet	qty.	1
unit/container 20'	qty.	7
unit/container 40'	qty.	16
unit/container 40' HC	qty.	31

# PHOEN/N - INDIRECT-FIRED HEATERS WITH DEDICATED LOW PRESSURE GAS BURNER



WEIGHTS AND DIMENSIONS MACHINE					PACKAGING			
MOD	A	B	C	Net	X	Y	H	Gross
	[in]	[in]	[in]	[lb]	[in]	[in]	[in]	[lb]
PHOENVN380	82.6	33.9	48.9	430	85.8	29.1	49.7	485

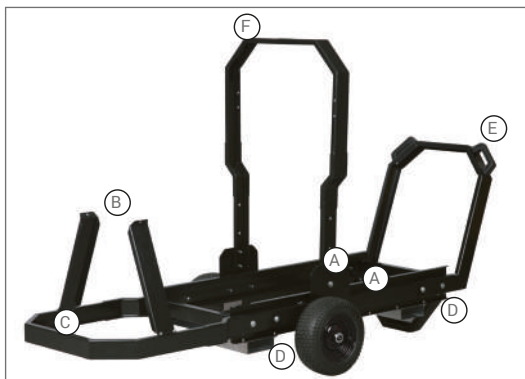


## Dedicated gas burner

The Phoen line of heaters features a built-in burner specifically designed and optimized for cylindrical combustion chambers typical of our cannon-type heaters. The burner features a separated combustion air blower that, in addition to the four-pass heat exchanger, enables to run the unit at 85% US efficiency, one of the highest in the industry.

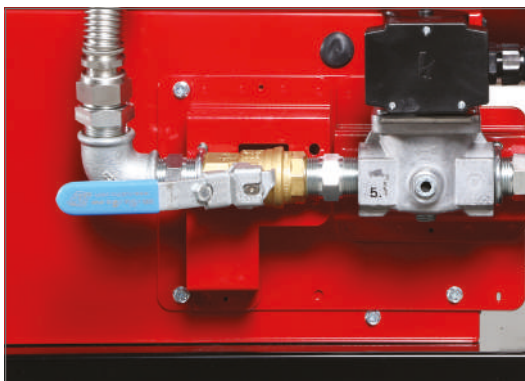
Legend

- 1 Combustion head
- 2 Blower motor
- 3 Combustion air blower
- 4 Flexible hose connecting blower to combustion head
- 5 Combustion air regulation valve
- 6 Electrodes
- 7 Gas nozzle



## Anti-shock frame with foldable handle

- A - Side protective bumper
- B - Brackets for anchoring to body
- C - Front protective bumper
- D - Forklift pockets
- E - Rear protective bumper with foldable handle
- F - Single point lift bail



## Manual gas valve

Manual gas valve to easily switch between natural gas and propane. Includes safety locking device to keep valve from moving once set.



# JUMBO

INDIRECT COMBUSTION HEAVY DUTY MOBILE SPACE HEATERS WITH AXIAL FAN

## JUMBO - INDIRECT COMBUSTION HEAVY DUTY MOBILE SPACE HEATERS WITH AXIAL FAN

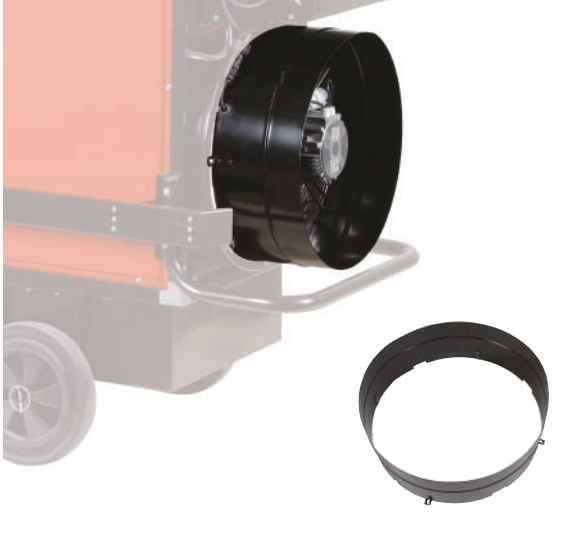

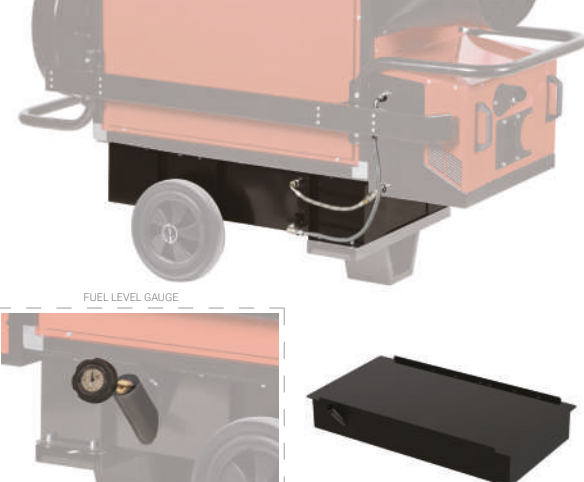

- CSA approved for construction, (greenhouses and brooders) US-C
- Burner cover: protects the burner against blows, dust, water, weather and collect diesel fuel/condensation recovery basin
- The new heat exchanger with the newly designed higher performance fans ensure heat US efficiency of 90%
- Better anchorage to the machine's weight bearing structure through sturdy attachment rods which allow for movement on any floors
- Bearing structure with removable panels for interior washing, also in hanging models
- Panels with reinforcement cross pleats to ensure superior rigidity and strength
- Combustion chamber inspection glass peep-hole
- Exclusive use of metric screws and inserts for fastening, no self-tapping screws
- Ventilator:
  - dust and water IP 55 protection
  - very low noise fan (noise level  $\leq 66\text{db}$  at 6,5 ft for 400-600 models,  $\leq 69\text{db}$  at 6,5 ft for 800 model)
  - 6-blade fan with high performance (air flow and static pressure) for uniform diffusion of warm air through duct
- fan outlet cone to convey air and ensure high static pressure
- Control rear electrical panel (IP 65):
  - located at the top rear of the machine to avoid contact with dust, water, snow
  - supplied with a sturdy metal cover to prevent damage and unauthorized access; also handy for storage of tools, papers, etc;
- Service front electrical panel:
  - located at the front of the machine inside the burner cover lid: to prevent contact with dust, water, snow; for easier maintenance; to facilitate controls and maintenance by the operator
- Every main component (fan, burner, thermostats, etc.) is supplied with quick couplings of electrical connections:
  - dust and water IP 68 protection
  - fast assembly, disassembly and technical maintenance
  - eliminates installation/disassembly mistakes



ACCESSORIES ON DEMAND

ONE WAY ADAPTER	TWO WAYS ADAPTER
	
<p><b>Mod. JUMBO 400 - 20"</b> <b>Cod. 02AC831</b></p>	<p><b>Mod. JUMBO 400 - 16" each</b> <b>Cod. 02AC832</b></p>
<p><b>Mod. JUMBO 600 - 28"</b> <b>Cod. 02AC851</b></p>	<p><b>Mod. JUMBO 600 - 20" each</b> <b>Cod. 02AC852</b></p>
<p><b>Mod. JUMBO 800 - 28"</b> <b>Cod. 02AC861</b></p>	<p><b>Mod. JUMBO 800 - 24" each</b> <b>Cod. 02AC862</b></p>
FOUR WAYS ADAPTER	FLEXIBLE AIR DUCTS 19,6' LONG WITH BAG AND BELT
	
<p><b>Mod. JUMBO 600 - 14" each</b> <b>Cod. 02AC853</b></p>	<p><b>Mod. 14"</b> <b>Cod. 02AC563</b></p>
<p><b>Mod. JUMBO 800 - 18" each</b> <b>Cod. 02AC863</b></p>	<p><b>Mod. 18"</b> <b>Cod. 02AC564</b></p>
	<p><b>Mod. 20"</b> <b>Cod. 02AC566</b></p>
	<p><b>Mod. 24"</b> <b>Cod. 02AC567</b></p>
	<p><b>Mod. 28"</b> <b>Cod. 02AC568</b></p>

# JUMBO - INDIRECT COMBUSTION HEAVY DUTY MOBILE SPACE HEATERS WITH AXIAL FAN

AIR INLET ADAPTER	REINFORCED FLEXIBLE AIR INLET DUCT
	
<p><b>Mod.</b> JUMBO 400 - 24" <b>Cod.</b> 02AC734</p>	<p><b>Mod.</b> JUMBO 400 - 24", l= 20 ft <b>Cod.</b> 02AC796</p>
<p><b>Mod.</b> JUMBO 600 - 26" <b>Cod.</b> 02AC744</p>	<p><b>Mod.</b> JUMBO 600 - 26", l= 20 ft <b>Cod.</b> 02AC797</p>
<p><b>Mod.</b> JUMBO 800 - 29" <b>Cod.</b> 02AC764</p>	<p><b>Mod.</b> JUMBO 800 - 29", l= 20 ft <b>Cod.</b> 02AC798</p>
	<p><b>Mod.</b> All - Clip for flexible duct (18" - 30") <b>Cod.</b> 02AC663</p>
TANK KIT	SIDE BUMPERS KIT
 <p>FUEL LEVEL GAUGE</p>	
<p><b>Mod.</b> JUMBO 400 (capacity= 25 US gal) <b>Cod.</b> 02AC837</p>	<p><b>Mod.</b> JUMBO 400 <b>Cod.</b> 02AC835</p>
<p><b>Mod.</b> JUMBO 600 (capacity=45 US gal) <b>Cod.</b> 02AC857</p>	<p><b>Mod.</b> JUMBO 600 <b>Cod.</b> 02AC855</p>
<p><b>Mod.</b> JUMBO 800 (capacity=53 US gal) <b>Cod.</b> 02AC867</p>	
<p><b>Mod.</b> Fuel level gauge <b>Cod.</b> 02AC510</p>	<p><b>Mod.</b> JUMBO 800 <b>Cod.</b> 02AC865</p>

# JUMBO - INDIRECT COMBUSTION HEAVY DUTY MOBILE SPACE HEATERS WITH AXIAL FAN

LIFTING KIT	SWIVELLING WHEELS KIT	HEAVY DUTY THERM. -23/+122°F CABLE 32,8', PLUG 90°
		
Mod. JUMBO 400 Cod. 02AC836	Mod. JUMBO 400 - 4" Cod. 02AC815	Cod. 02AC582
Mod. JUMBO 600 Cod. 02AC856	Mod. JUMBO 600 - 800 - 6" Cod. 02AC816	
Mod. JUMBO 800 Cod. 02AC866		
RIELLO DIESEL BURNER	RIELLO LPG/NATURAL GAS BURNER + GAS TRAIN	TWO-PIPE EXTERNAL FUEL TANK CONNECTION KIT (l=16,4') + QUICK CONNECTIONS KIT
		
Mod. JUMBO 400 Cod. 076B201	Mod. JUMBO 400 Cod. 074B107-09	Mod. Two-pipe external tank connection kit Cod. 02AC668
Mod. JUMBO 600 Cod. 076B202	Mod. JUMBO 600 Cod. 074B108-10	Mod. Quick connections kit (M+F x 2) Cod. 02AC669
Mod. JUMBO 800 Cod. 076B203	Mod. JUMBO 800 Cod. 074B109-11	
PRE-HEATED FUEL FILTER	SINGLE PIPE EXTERNAL FUEL TANK CONNECTION KIT WITH DE AERATOR	CHIMNEY SUPPORT KIT
		
Cod. 02AC899	Cod. 02AC819	Mod. JUMBO 400 Cod. 02AC813
		Mod. JUMBO 600/800 Cod. 02AC814

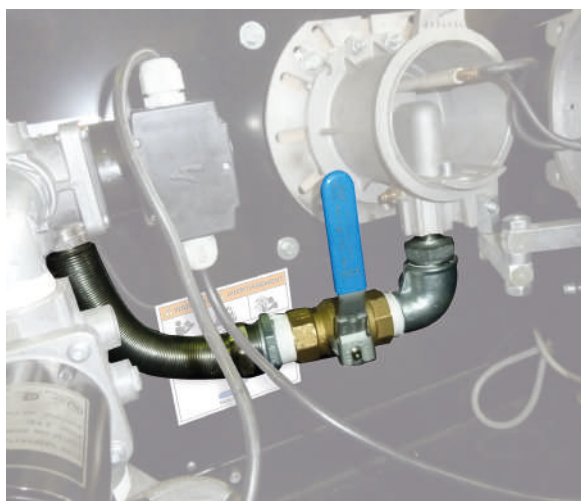
**CHIMNEY HOLDER KIT**








<b>Mod. JUMBO 400</b> <b>Cod. 02AC834</b>
<b>Mod. JUMBO 600</b> <b>Cod. 02AC854</b>
<b>Mod. JUMBO 800</b> <b>Cod. 02AC864</b>

## Manual gas valve

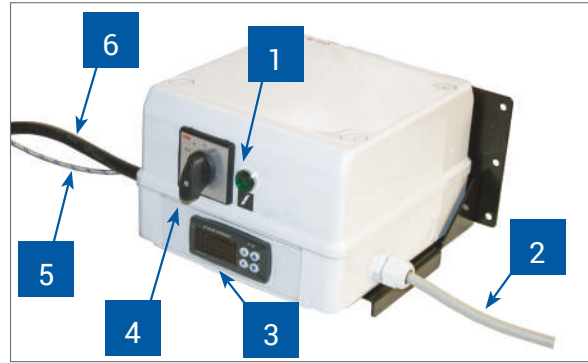
Manual gas valve to easily switch between natural gas and propane. Includes safety locking device to keep valve from moving once set.



⚠ <b>WARNING</b> ⚠ <b>AVERTISSEMENT</b>		
		
<b>GAS SELECTOR VALVE</b> <b>SOUPAPE DE SELECTION DU GAZ</b> Lock valve in position after selection Verrouiller la vanne en position après la sélection		
 <span style="margin-left: 20px;">Propane</span>		
 <span style="margin-left: 20px;">Natural Gas</span>		



## Rear electrical panel

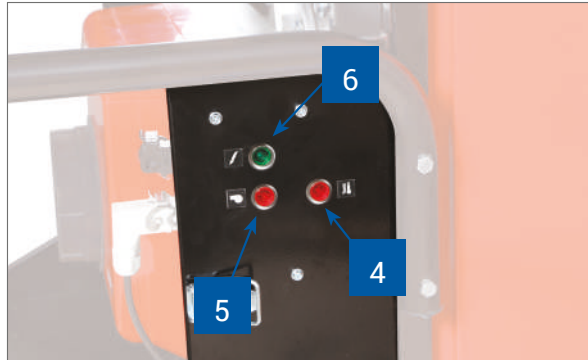
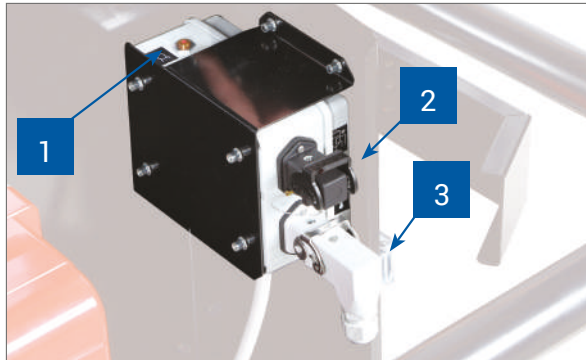


### Legend

- 1 Electrical power supply
- 2 Motor cable
- 3 Thermoregulator allows for:
  - FAN thermostat setting to control the fan: before heating and after ventilation of combustion chamber
  - LIMIT thermostat setting for burner control
  - display of machine's hours of work
  - temperature of air exiting the outlet
  - setting changes with password

- 4 Switch 4 positions:
  - O= STOP
  - V= VENTILATION (NO HEATING)
  - H= HEATING
  - H+V= HEATING WITH CONTINUOUS VENTILATION
- 5 Heat adjustment probe
- 6 Power cable

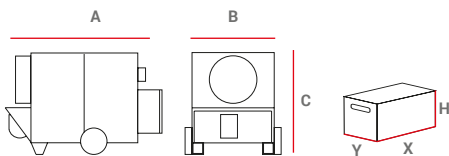
## Service front electrical panel



### Legend

- 1 OVERHEATING: safety thermostat in case of overheating, with manual reset
- 2 Pre-heating filter socket
- 3 Socket for thermostat ambient/ humidistat/timer

- 4 Overheat thermostat overheat indicator light (overheating)
- 5 Burner indic
- 6 Electric power indicator light



MOD	WEIGHTS AND DIMENSIONS MACHINE *				PACKAGING			
	A	B	C	Net	X	Y	H	Gross
	[in]	[in]	[in]	[lb]	[in]	[in]	[in]	[lb]
JUMBO 400	69.5	31.5	47.8	441	69.8	28	48.8	485
JUMBO 600	79.3	36	55.7	595.2	78	31.5	54.7	639.3
JUMBO 800	88.4	38.7	62.4	773.8	87.4	34.6	61.4	818

\* Complete machine with burner and one way adapter

## JUMBO - INDIRECT COMBUSTION HEAVY DUTY MOBILE SPACE HEATERS WITH AXIAL FAN

		<b>JUMBO 400 OIL*</b>	<b>JUMBO 600 OIL*</b>	<b>JUMBO 800 OIL*</b>
code number		02AG241	02AG251	02AG262
heat input	BTU/h	400,000	600,000	800,000
heat output	BTU/h	357,057	532,844	706,411,35
US heat efficiency	%	90	90	90
heated airflow	cfm	5,297	7,063	10,005.8
available static pressure	Pa - inwc	120 - 0.48	150 - 0.60	200 - 0.80
temperature rise (@ 68°F)	°F	108°	109.8°	102.6°
diesel consumption	USA gal/h	2.83	4.23	5.59
natural gas consumption	cfh	-	-	-
input pressure	inc	-	-	-
LPG consumption	cfh	-	-	-
input pressure	inc	-	-	-
power supply	V - ph - Hz	120-1-60	120-1-60	240-1-60
electrical power	W	990	1,400	3,000
flue diameter	in	7.87	7.87	7.87
air outlet duct diameter /L.max	in - feet	1 WAY 20"-60	1 WAY 28"-60	1 WAY 28"-90
			2 WAYS 20"-36	2 WAYS 24"-45
		2 WAYS 16"-36	4 WAY 14"-30	4 WAYS 18"-45
				5 WAYS 14"-36
recovery duct diameter /L.max	in - feet	24"-12	26"-12	28.8"-18
unit/pallet	qty.	1	1	1
unit/container 20"	qty.	8	7	6
unit/container 40"	qty.	16	15	13
unit/container 40" HC	qty.	32	15	13

		<b>JUMBO 400 GAS*</b>	<b>JUMBO 600 GAS*</b>	<b>JUMBO 800 GAS*</b>
code number		02AG241	02AG251	02AG262
heat input	BTU/h	400,000	600,000	800,000
heat output	BTU/h	354,878	533,911	722,765
US heat efficiency	%	90	90	90
heated airflow	cfm	5,297	7,063	10,005.8
available static pressure	Pa - inwc	120 - 0.48	150 - 0.60	200 - 0.80
temperature rise (@ 68°F)	°F	108°	109.8°	102.6°
diesel consumption	USA gal/h	-	-	-
natural gas consumption	cfh	384,308	581,418	771,999
input pressure	inc	8.00	8.00	8.00
LPG consumption	cfh	158,400	239,225	317,156
input pressure	inc	12.01	12.01	12.01
power supply	V - ph - Hz	120-1-60	120-1-60	240-1-60
electrical power	W	950	1,400	3,000
flue diameter	in	7.87	7.87	7.87
air outlet duct diameter /L.max	in - feet	1 WAY 20"-60	1 WAY 28"-60	1 WAY 28"-90
			2 WAYS 20"-36	2 WAYS 24"-45
		2 WAYS 16"-36	4 WAY 14"-30	4 WAYS 18"-45
				5 WAYS 14"-36
recovery duct diameter /L.max	in - feet	24"-12	26"-12	28.8"-18
unit/pallet	qty.	1	1	1
unit/container 20"	qty.	8	7	6
unit/container 40"	qty.	16	15	13
unit/container 40" HC	qty.	32	15	13

\* Machine without burner

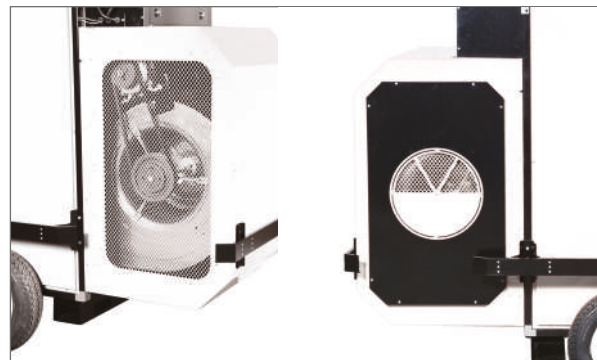
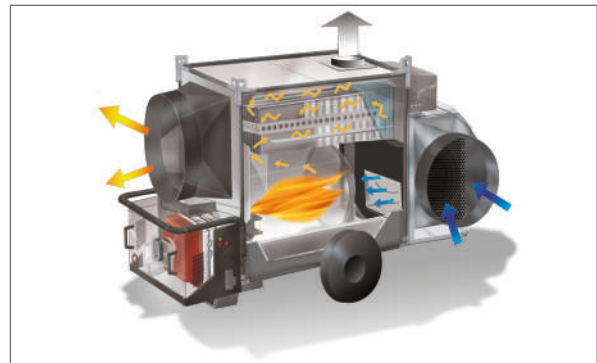


# TITAN

INDIRECT COMBUSTION HEAVY DUTY MOBILE SPACE HEATERS WITH CENTRIFUGAL FAN

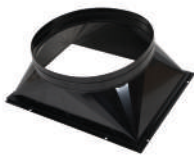

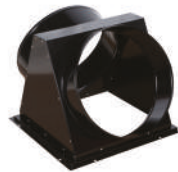




## TITAN - INDIRECT COMBUSTION HEAVY DUTY MOBILE SPACE HEATERS WITH CENTRIFUGAL FAN

- CSA approved for construction, greenhouses and brooders US-C
- Burner cover: protects the burner against blows, dust, water, weather and collect diesel fuel/condensation recovery basin
- The new heat exchanger with the newly designed higher performance fans ensure heat US efficiency of 92%
- Better anchorage to the machine's weight bearing structure through sturdy attachment rods which allow for movement on any floors
- Bearing structure with removable panels for interior washing, also in hanging models
- Panels with reinforcement cross pleats to ensure superior rigidity and strength
- Combustion chamber inspection glass peep-hole
- Exclusive use of metric screws and inserts for fastening, no self-tapping screws
- Protection cap of combustion chamber exhaust in plastic material with retention chains guards
- Ventilator:
  - dust and water IP 55 protection
  - very low noise fan (noise level  $\leq 69\text{db}$  at 2 meters)
- high output, high performance fan guarantees increased air flow and static pressure (300 Pa) for uniform and long distance diffusion of warm air through channels or ducts
- fan anchorage on machine's bearing structure through sturdy rods
- adjustable fresh air re-uptake shutter
- Control rear electrical panel (IP 65):
  - located at the top rear of the machine to avoid contact with dust, water, snow
  - supplied with a sturdy metal cover to prevent damage and unauthorized access; also handy for storage of tools, papers, etc;
- Service front electrical panel (IP 65):
  - located at the front of the machine inside the burner cover lid: to prevent contact with dust, water, snow; for easier maintenance; to facilitate controls and maintenance by the operator
- Every main component (fan, burner, thermostats, etc.) is supplied with quick couplings of electrical connections:
  - fast assembly, disassembly and technical maintenance
  - eliminates installation/disassembly mistakes



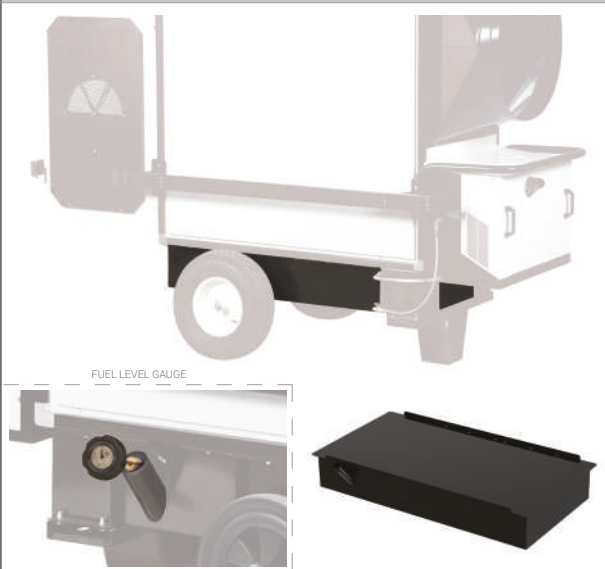



TITAN - INDIRECT COMBUSTION HEAVY DUTY MOBILE SPACE HEATERS WITH CENTRIFUGAL FAN










ACCESSORIES ON DEMAND

ONE WAY ADAPTER	TWO WAYS ADAPTER
 	 
<p><b>Mod. TITAN 750 - 26"</b> <b>Cod. 02AC881</b></p>	<p><b>Mod. TITAN 750 - 20" each</b> <b>Cod. 02AC882</b></p>
<p><b>Mod. TITAN 1000 - 28"</b> <b>Cod. 02AC891</b></p>	<p><b>Mod. TITAN 1000 - 24" each</b> <b>Cod. 02AC892</b></p>
FOUR WAYS ADAPTER	FLEXIBLE AIR DUCT
 	  
<p><b>Mod. TITAN 750 - 14" each</b> <b>Cod. 02AC883</b></p>	<p><b>Mod. 14"</b> <b>Cod. 02AC563</b></p>
	<p><b>Mod. 18"</b> <b>Cod. 02AC564</b></p>
	<p><b>Mod. 20"</b> <b>Cod. 02AC566</b></p>
<p><b>Mod. TITAN 1000 - 18" each</b> <b>Cod. 02AC893</b></p>	<p><b>Mod. 24"</b> <b>Cod. 02AC567</b></p>
	<p><b>Mod. 28"</b> <b>Cod. 02AC568</b></p>

# TITAN - INDIRECT COMBUSTION HEAVY DUTY MOBILE SPACE HEATERS WITH CENTRIFUGAL FAN

AIR INLET ADAPTER	REINFORCED FLEXIBLE AIR INLET DUCT
	
<p><b>Mod. TITAN 750 - 29"</b> <b>Cod. 02AC884</b></p>	<p><b>Mod. TITAN 750 - 29", l= 20 ft</b> <b>Cod. 02AC798</b></p>
<p><b>Mod. TITAN 1000 - 30"</b> <b>Cod. 02AC894</b></p>	<p><b>Mod. TITAN 1000 - 30", l= 20 ft</b> <b>Cod. 02AC804</b></p> <p><b>Mod. All - Clip for flexible duct (18" - 30")</b> <b>Cod. 02AC663</b></p>
TANK KIT	SIDE BUMPERS KIT
	
<p><b>Mod. TITAN 750 (capacity= 45 US gal)</b> <b>Cod. 02AC857</b></p>	<p><b>Mod. TITAN 750</b> <b>Cod. 02AC885</b></p>
<p><b>Mod. TITAN 1000 (capacity= 53 US gal)</b> <b>Cod. 02AC867</b></p>	<p><b>Mod. TITAN 1000</b> <b>Cod. 02AC895</b></p>
<p><b>Mod. Fuel level gauge</b> <b>Cod. 02AC510</b></p>	

# TITAN - INDIRECT COMBUSTION HEAVY DUTY MOBILE SPACE HEATERS WITH CENTRIFUGAL FAN

LIFTING KIT	SWIVELLING WHEELS KIT	HEAVY DUTY THERM. -23/+122°F CABLE 32,8', PLUG 90°
		
Mod. TITAN 750 Cod. 02AC856	Mod. TITAN 750 - 6" Cod. 02AC816	Cod. 02AC582
Mod. TITAN 1000 Cod. 02AC866	Mod. TITAN 1000 - 7" Cod. 02AC817	
RIELLO DIESEL BURNER	RIELLO LPG/NATURAL GAS BURNER + GAS TRAIN	TWO-PIPE EXTERNAL FUEL TANK CONNECTION KIT (l=16,4') + QUICK CONNECTIONS KIT
		
Mod. TITAN 750 Cod. 076B205	Mod. TITAN 750 Cod. 074B108-12	Mod. Two-pipe external tank connection kit Cod. 02AC668
Mod. TITAN 1000 Cod. 076B204	Mod. TITAN 1000 Cod. 074B110-13	Mod. Quick connections kit (M+F x 2) Cod. 02AC669
PRE-HEATED FUEL FILTER	SINGLE PIPE EXTERNAL FUEL TANK CONNECTION KIT WITH DE AERATOR	CHIMNEY SUPPORT KIT
		
Cod. 02AC899	Cod. 02AC819	Mod. TITAN 750/1000 Cod. 02AC814

# TITAN - INDIRECT COMBUSTION HEAVY DUTY MOBILE SPACE HEATERS WITH CENTRIFUGAL FAN

**CHIMNEY HOLDER KIT**



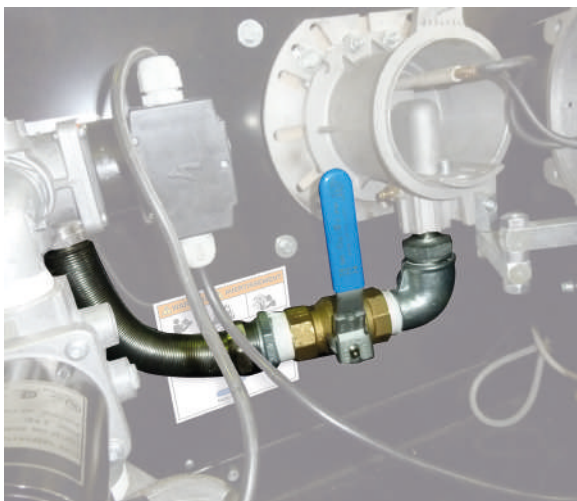
The image shows a chimney holder kit consisting of two metal brackets and a cable. Below, the kit is shown installed on a white heater unit. The heater has a silver cylindrical chimney pipe extending from its top. The brackets are mounted on the heater's base to support the chimney pipe.

Mod. TITAN 750  
Cod. 02AC854


Mod. TITAN 1000  
Cod. 02AC864

## Manual gas valve

Manual gas valve to easily switch between natural gas and propane. Includes safety locking device to keep valve from moving once set.




**! WARNING ! AVERTISSEMENT**



**GAS SELECTOR VALVE**  
**SOUPAPE DE SELECTION DU GAZ**

Lock valve in position after selection  
Verrouiller la vanne en position après la sélection



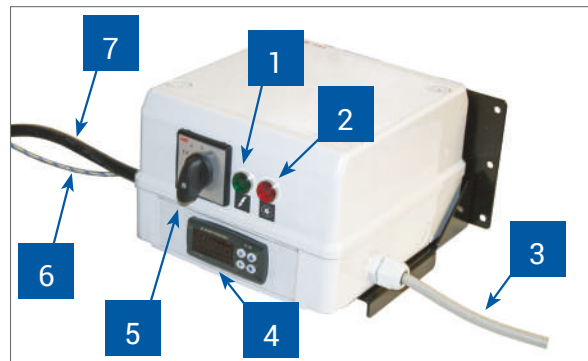
Propane

Natural Gas



# TITAN - INDIRECT COMBUSTION HEAVY DUTY MOBILE SPACE HEATERS WITH CENTRIFUGAL FAN

## Rear electrical panel

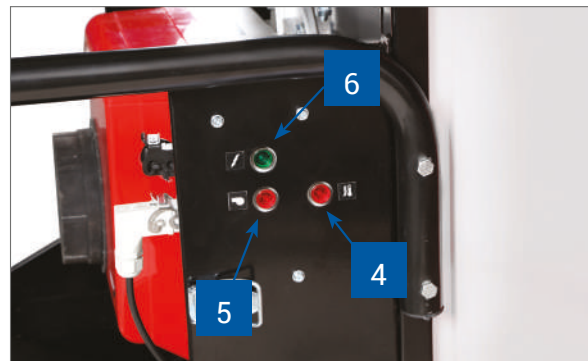
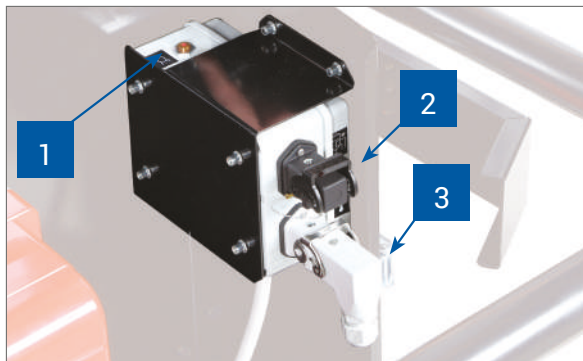


### Legend

- 1 Electrical power supply
- 2 Motor overheat
- 3 Motor cable
- 4 Thermoregulator allows for:
  - FAN thermostat setting to control the fan: before heating and after ventilation of combustion chamber
  - LIMIT thermostat setting for burner control
  - display of machine's hours of work
  - temperature of air exiting the outlet

- setting changes with password
- 5 Switch 4 positions:
  - O= STOP
  - V= VENTILATION (FRESH AIR)
  - H= HEATING
  - H+V= HEATING WITH CONTINUOUS VENTILATION
- 6 Heat adjustment probe
- 7 Power cable

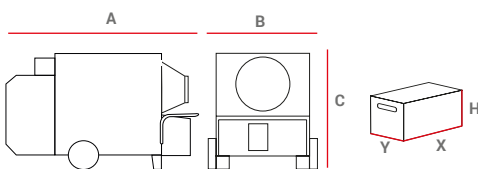
## Service front electrical panel



### Legend

- 1 OVERHEATING: safety thermostat in case of overheating, with manual reset
- 2 Pre-heating filter socket
- 3 Socket for thermostat ambient/ humidistat/timer

- 4 Thermostat overheat indicator light (overheating)
- 5 Burner indicator light
- 6 Electric power indicator light



WEIGHTS AND DIMENSIONS MACHINE*					PACKAGING			
MOD	A	B	C	Netto/Net	X	Y	H	Lordo/Gross
	[in]	[in]	[in]	[lb]	[in]	[in]	[in]	[lb]
TITAN 750	95	36.2	63.8	948	-	-	-	-
1/2	-	-	-	-	84.2	31.5	62.8	959
2/2	-	-	-	-	30	15.7	19.7	33
TITAN 1000	103.5	41	72.4	1,179.5	-	-	-	-
1/2	-	-	-	-	91.6	33.9	69.4	1,155.2
2/2	-	-	-	-	32.3	17.7	22	48.5

\* Complete machine with burner and one way adapter

## TITAN - INDIRECT COMBUSTION HEAVY DUTY MOBILE SPACE HEATERS WITH CENTRIFUGAL FAN

		<b>TITAN 750 OIL*</b>	<b>TITAN 1000 OIL*</b>
code number		02AG282	02AG292
nominal heating power	[BTU/h]	750,000	1,000,000
heating power output	[BTU/h]	692,612	957,553
US heat efficiency	[%]	92.50	93
airflow	[cfm]	9,417.2	11,182.9
available static pressure	[Pa - inwc]	280-1.12	300-1.20
heat rise	[°F]	93.6°	109.8°
diesel consumption	[USA gal/h]	5.33	7.16
natural gas consumption	[cfh]	-	-
input pressure	[inc]	-	-
LPG consumption	[cfh]	-	-
input pressure	[inwc]	-	-
power supply	[V - ph - Hz]	240-1-60	240-1-60
electrical power	[W]	3,850	4,100
flue diameter	[in]	7.87	7.87
air outlet duct diameter /L.max	[in - feet]	1 WAY 28"-150	1 WAY 28"-150
		2 WAYS 20"-90	2 WAYS 24"-90
		4 WAYS 14"-75	4 WAYS 16"-75
			5 WAYS 14"-45
recovery duct diameter /L.max	[in - feet]	29"-30	30"-30
unit/pallet	qty.	1	1
unit/container 20"	qty.	7	6
unit/container 40"	qty.	15	13
unit/container 40" HC	qty.	15	13

		<b>TITAN 750 GAS*</b>	<b>TITAN 1000 GAS*</b>
code number		02AG282	02AG292
nominal heating power	[BTU/h]	750,000	1,000,000
heating power output	[BTU/h]	673,638	917,057
US heat efficiency	[%]	92.50	93
airflow	[cfm]	9,417.2	11,182.9
available static pressure	[Pa - inwc]	280-1.12	300-1.20
heat rise	[°F]	93.6°	109.8°
diesel consumption	[USA gal/h]	-	-
natural gas consumption	[cfh]	721,485	971,518
input pressure	[inc]	8.00	8.00
LPG consumption	[cfh]	290,601	398,883
input pressure	[inc]	12.01	12.01
power supply	[V - ph - Hz]	240-1-60	240-1-60
electrical power	[W]	3,360	4,150
flue diameter	[in]	7.87	7.87
air outlet duct diameter /L.max	[in - feet]	1 WAY 28"-150	1 WAY 28"-150
		2 WAYS 20"-90	2 WAYS 24"-90
		4 WAYS 14"-75	4 WAYS 16"-75
			5 WAYS 14"-45
recovery duct diameter /L.max	[in - feet]	29"-30	30"-30
unit/pallet	qty.	1	1
unit/container 20"	qty.	7	6
unit/container 40"	qty.	15	13
unit/container 40 HC	qty.	15	13

\* Machine without burner

AVAILABILITY  
TO BE AGREED

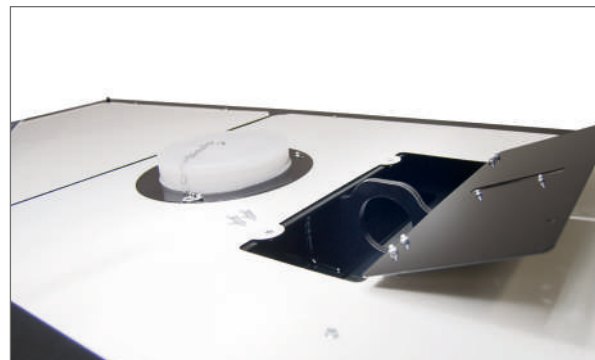
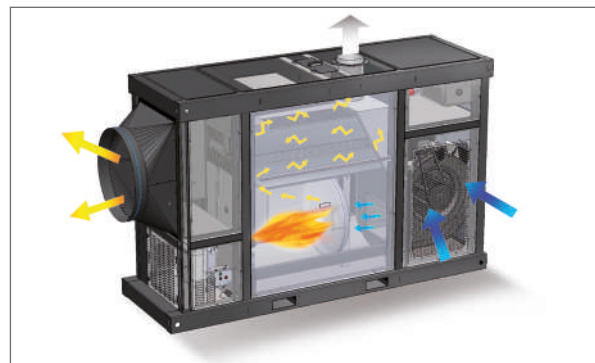


# SCUDO

BASE FRAMED INDIRECT COMBUSTION SPACE HEATERS WITH CENTRIFUGAL FAN






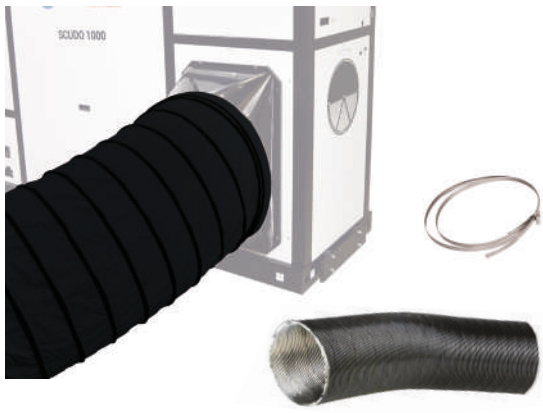
## SCUDO - BASE FRAMED INDIRECT COMBUSTION SPACE HEATERS WITH CENTRIFUGAL FAN

- CSA approved for construction, greenhouses and brooders US-C
- Base adapted for moving with a fork lift
- Front protective casing with lockable door for burner cover
- Rear protective casing for the centrifugal fan with air intake/aspiration side joint
- Protective base for the upper part with lifting/ fastening hooks
- Central lifting hook
- Removable panels for internal washing with reinforcement cross folds to ensure more rigidity and strength
- Exclusive use of metric screws and inserts for fastening, no self-tapping screws
- The new heat exchanger combined with the new higher performance fans, achieve a thermal output of 96%
- Fan protection IP55:
  - very silent (noise level  $\leq 69$  db at 2 meters);
  - high output and performances which ensure high air delivery and static pressure (500 Pa) for uniform diffusion and through long distances of warm air through canals or ducts;
  - fan anchored to weight-bearing structure through sturdy beams and fastening brackets;
  - adjustable shutter for fresh air restoration;
- Rear electric control panel (IP65):
  - situated at the rear of the machine to avoid contact with dust, water, snow, etc...
  - supplied with a sturdy metal cover which can also be used to stow tools and documents;
- Front service control panel (IP 65):
  - situated at the front of the machine, inside the burner cover casing: to avoid contact with dust, water, snow; for easier maintenance; for more convenient control and intervention operations



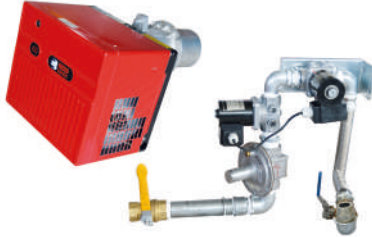

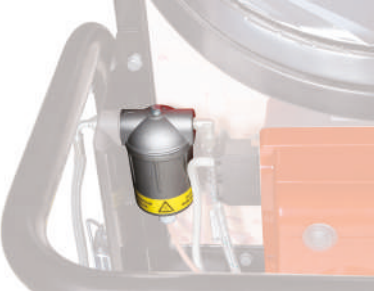




SCUDO - BASE FRAMED INDIRECT COMBUSTION SPACE HEATERS WITH CENTRIFUGAL FAN

ACCESSORIES ON DEMAND

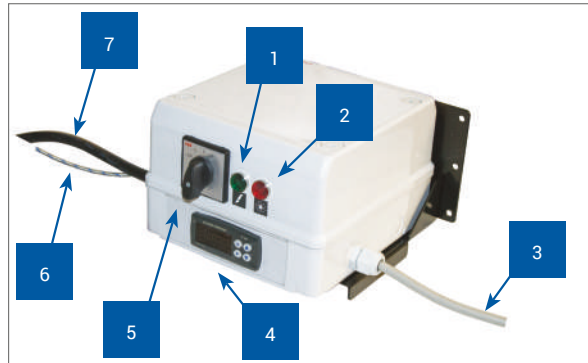
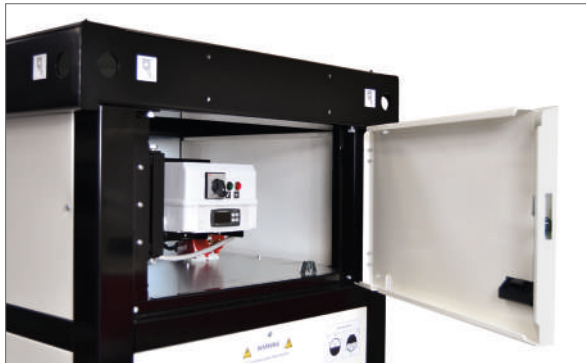
ONE WAY ADAPTER	TWO WAYS ADAPTER
	
<p>Mod. 28" Cod. 02AC891</p>	<p>Mod. 24" each Cod. 02AC892</p>
FOUR WAYS ADAPTER	FLEXIBLE AIR DUCTS WITH CLIP
	
<p>Mod. 18" each Cod. 02AC893</p>	<p>Mod. 28", l= 20 ft Cod. 02AC568</p>
AIR INLET ADAPTER	REINFORCED FLEXIBLE AIR INLET DUCT
	
<p>Mod. 30" Cod. 02AC894</p>	<p>Mod. 30", l= 20 ft Cod. 02AC804</p> <p>Mod. clip for flexible duct (18"/30") Cod. 02AC663</p>

# SCUDO - BASE FRAMED INDIRECT COMBUSTION SPACE HEATERS WITH CENTRIFUGAL FAN

<p>HEAVY DUTY THERM. -23/+122°F CABLE 32,8', PLUG 90°</p>	<p>RIELLO DIESEL BURNER</p>	<p>RIELLO LPG/NATURAL GAS BURNER + GAS TRAIN</p>
		
<p>Cod. 02AC582</p>	<p>Cod. 076B204</p>	<p>Cod. 074B110-13</p>
<p>TWO-PIPE EXTERNAL FUEL TANK CONNECTION KIT (l=16,4") + QUICK CONNECTIONS KIT (M + F x 2)</p>	<p>PRE-HEATED FUEL FILTER</p>	<p>SINGLE PIPE EXTERNAL FUEL TANK CONNECTION KIT WITH DE AERATOR</p>
		
<p>Mod. Two-pipe external tank connection kit Cod. 02AC668</p>	<p>Cod. 02AC899</p>	<p>Cod. 02AC819</p>
<p>Mod. Quick connections kit (M+F x 2) Cod. 02AC669</p>		
<p>CHIMNEY SUPPORT KIT</p>		
		
<p>Cod. 02AC814</p>		

## SCUDO - BASE FRAMED INDIRECT COMBUSTION SPACE HEATERS WITH CENTRIFUGAL FAN

### Rear electrical panel



#### Legend

1 Electrical power supply

2 Motor overheat (only for three-phase)

3 Motor cable

4 Thermoregulator allows for:

- FAN thermostat setting to control the fan: before heating and after ventilation of combustion chamber
- LIMIT thermostat setting for burner control
- display of machine's hours of work
- temperature of air exiting the outlet
- setting changes with password

5 Switch 4 positions:

**O**= STOP

**V**= VENTILATION (FRESH AIR)

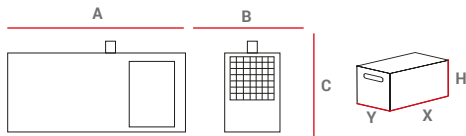
**H**= HEATING

**H+V**= HEATING WITH CONTINUOUS VENTILATION

6 Heat adjustment probe

7 Power cable

# SCUDO - BASE FRAMED INDIRECT COMBUSTION SPACE HEATERS WITH CENTRIFUGAL FAN



WEIGHTS AND DIMENSIONS MACHINE*					PACKAGING			
MOD	A	B	C	Net	X	Y	H	Gross
	[in]	[in]	[in]	[lb]	[in]	[in]	[in]	[lb]
SCUDO 1000	110	35	69,5	1887	100	35	69,5	1887

\* Complete machine with burner and one way adapter

		SCUDO 1000 OIL*	SCUDO 1000 GAS*
code number		02AG296	
nominal heating power	[BTU/h]	1,000,000	1,000,000
heating power output	[BTU/h]	957,553	917,057
US heat efficiency	[%]	93	93
airflow	[cfm]	11,182.9	11,182.9
available static pressure	[Pa - inwc]	300-1.20	300-1.20
heat rise	[°F]	109.8°	109.8°
diesel consumption	[USA gal/h]	7.16	-
natural gas consumption	[cfh]	-	971,518
input pressure	[inc]	-	8.00
LPG consumption	[cfh]	-	398,883
input pressure	[inwc]	-	12.01
power supply	[V - ph - Hz]	240-1-60	240-1-60
electrical power	[W]	4,100	4,150
flue diameter	[in]	7.87	7.87
air outlet duct diameter /L.max	[in - feet]	1 WAY 28"-150	1 WAY 28"-150
		2 WAYS 24"-90	2 WAYS 24"-90
		4 WAYS 16"-75	4 WAYS 16"-75
		5 WAYS 14"-45	5 WAYS 14"-45
recovery duct diameter /L.max	[in - feet]	30"-30	30"-30
unit/pallet	qty.	1	1
unit/container 20"	qty.	6	6
unit/container 40"	qty.	13	13
unit/container 40" HC	qty.	13	13

\* Machine without burner and air adapter



AVAILABILITY  
TO BE AGREED

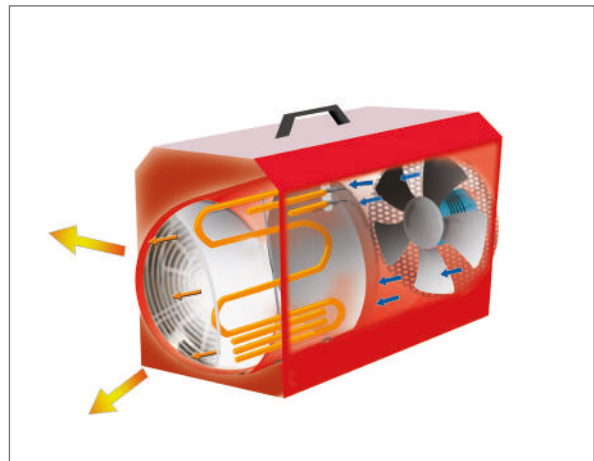


EK



ELECTRICAL MOBILE SPACE HEATERS

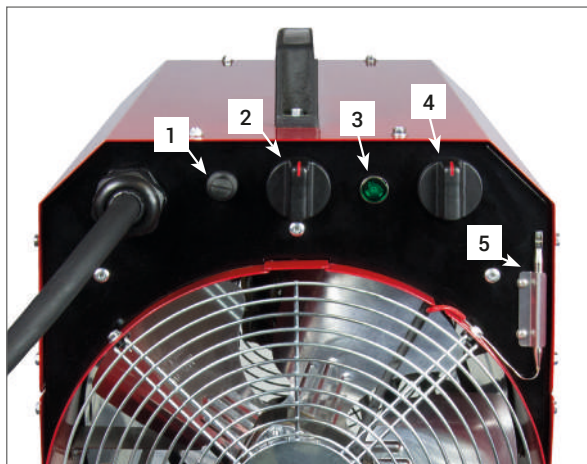
## EK - ELECTRICAL MOBILE SPACE HEATERS

- Heating, drying and ventilating
- Heating high efficiency resistances design
- Built to run non-stop without a break
- Room thermostat integrated
- Extra strength elements AISI 321 for long life performance
- Power selector switch
- Manual reset over heat thermostat
- Stainless steel front grid
- Duct able up to 6 m long (EK 35 - EK 60)
- Stack-ability
- EK 5 and EK 10 equipped with power cord length 4,5 feet and NEMA 5-15P plug (EK5) and NEMA 6-15P plug (EK 10)
- EK 35 and EK 60 equipped with power cord length 4,5 feet, no plugs



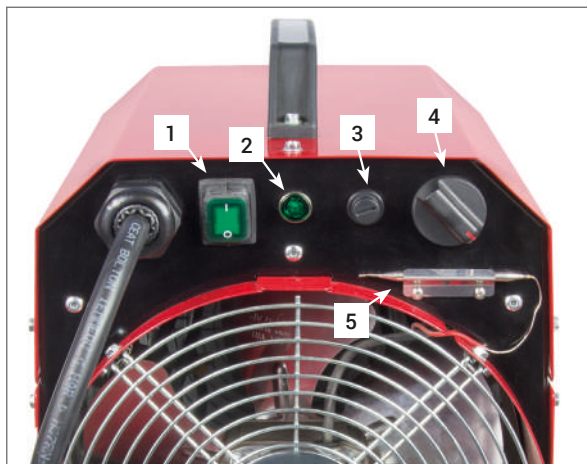
ACCESSORIES ON DEMAND

DUCT ADAPTER	FLEXIBLE AIR DUCT 19,6 ft LONG WITH CLIP
	
<p>Mod. 12" Cod. 06AC101</p>	<p>Mod. 12" Cod. 02AC562</p>
<p>Mod. 14" Cod. 06AC106</p>	<p>Mod. 14" Cod. 02AC563</p>



Legend for EK 35

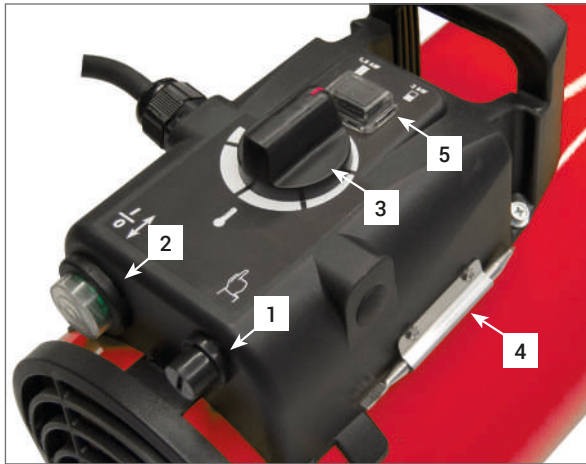
- 1 Reset
- 2 Power selector
- 3 Light
- 4 Room thermostat
- 5 Ambient probe



Legend for EK 60

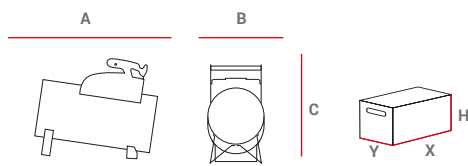
- 1 Power switch
- 2 Resistance power light
- 3 Over heat thermostat push button manual reset
- 4 Room thermostat
- 5 Ambient probe

## EK - ELECTRICAL MOBILE SPACE HEATERS





### Legend for EK 5 - 10

- 1 Overheat thermostat reset button
- 2 Power switch
- 3 Room thermostat
- 4 Room thermostat sensor
- 5 High-low power switch



PESI E DIMENSIONI MACCHINA WEIGHTS AND DIMENSIONS MACHINE					IMBALLO PACKAGING			
MOD	A	B	C	Netto/Net	X	Y	H	Lordo/Gross
	[in]	[in]	[in]	[lb]	[in]	[in]	[in]	[lb]
EK 5	14.5	7.1	11.0	11.0	15.4	10.9	8.5	13.2
EK 10	14.5	7.1	11.0	11.0	15.4	10.9	8.5	13.2
EK 35	22.6	10.9	20.1	33.0	24.0	15.3	12.4	37.5
EK 60	27.6	12.5	21.2	46.3	28.8	17.0	13.8	50.7

			EK 5	EK 10	EK 35	EK 60
code			06EK701	06EK702	06EK703	06EK704
electric supply	supply voltage	V	120	240	240	240
	phases		1~	1	1	3~
	frequency	Hz	60	60	60	60
max power	power	kW	1.5	3	10	18
	-	BTU/h	5,115	10,230	34,100	61,380
	current	A	12.5	12.5	42	47
min power	power	kW	0.75	1.5	-	12
	-	BTU/h	2,558	5,115	-	40,920
temperature rise a 68°F [max/min]	F°		80/58	80/58	100	117/81
airflow	CFM		200	265	1,200	1,500
room thermostat setting temperature	F°		32 ÷ 104	32 ÷ 104	32 ÷ 104	32 ÷ 104
plugs	plug		Nema 5-15P	Nema 6-15P	-	-
						
power cord	AWG		12	12	8	8
unit/pallet	qty.		72	72	24	18

# AGRICULTURE AND BREEDING



## AGRICULTURE AND BREEDING

This family includes fix or suspended space heaters for agriculture and breeding applications. They solve numerous problems in heating structures such as greenhouses and stalls, where an inexpensive investment is a priority. In general, these heaters have hooks or brackets for installation on the ceiling and/or a support for installation on the ground.

The burner can be integrated or separate. Heaters with integrated burner are not recommended for use in spaces that are dusty, dirty, or low in oxy-

gen, whereas those with separate burner can be used in these types of spaces provided a sheath is connected to the burner with a snorkel intake to pull in fresh air from the outside.

This family includes:



**GA/N:** in stainless steel, can be powered by low-pressure LPG or methane (20-30 mbar), with integrated burner and direct combustion. Can easily be driven by a remote control unit.

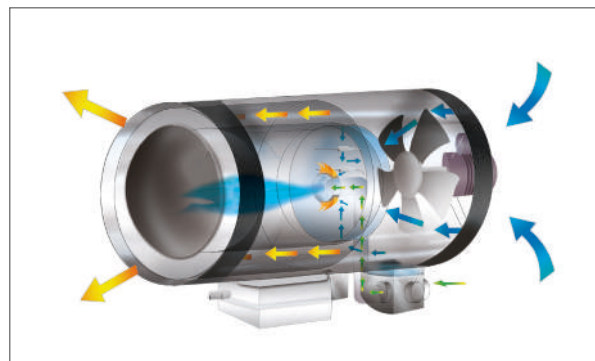


# GA/N

DIRECT COMBUSTION LOW PRESSURE SUSPENDED SPACE HEATERS




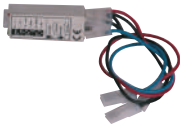

## GA/N - DIRECT COMBUSTION LOW PRESSURE SUSPENDED SPACE HEATERS

- CSA approved for construction, greenhouses and brooders US-C
- Automatic built-in LPG or natural gas burner to give very low emissions of CO, NOx and Ethylene
- Electric board (dust and water IP65 protection)
- Set to be connected to a thermostat or a humidistat or a timer
- High-grade AISI 430 stainless steel design
- Automatic ignition
- Flame monitored by ionisation probe
- Overheating thermostat
- Connectable for climate computer
- Monitoring the fan air flow by a vane switch (dust and water IP65 protection)
- Gas train: gas filter, gas governor, safety gas valve and slow open working gas valve, gas pressure connections
- IP 55 motor installed in a easy clean position to avoid overheating
- Continue post ventilation (fan always switch on) or temporized post ventilation (30 seconds)
- Summer-winter switch to use as a fan
- Suspending brackets
- Low voltage control
- Work with natural or propane gas with different nozzle gas ring

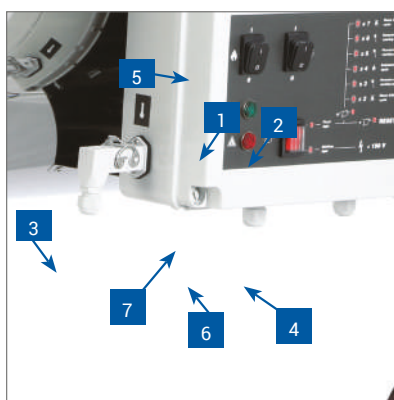




## ACCESSORIES ON DEMAND

<p>HEAVY DUTY THERM. -23/+122°F CABLE 32,8', PLUG 90°</p>	<p>ELECTRONIC THERMOSTAT IP55 WITH DISPLAY +14/+158°F WITHOUT POWER CORD AND PLUG</p>	<p>SINGLE UNIT REMOTE CONTROL</p>
		
<p>Cod. 02AC582</p>	<p>Cod. 02AC294</p>	<p>Mod. GA/N 250/400 (Cable 16,5') Cod. 02AC584</p>
<p>DELAYED AND SEQUENTIAL STARTING RELAY</p>	<p>ANTI-MOISTURE PTC THERMISTOR RESISTANCE ON COMBUSTION HEAD</p>	
		
<p>Mod. GA/N 250/400 Cod. 02AC586</p>	<p>Cod. 02AC587</p>	

## Electrical control board



### Legend

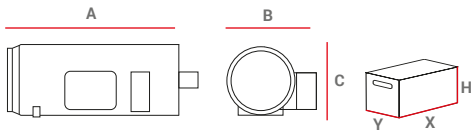
- 1 Burner switch
- 2 Fan switch
- 3 Remote thermostat plug
- 4 Reset button with red block / diagnostics/low voltage
- 5 Overheating thermostat reset button
- 6 Red light - operation of overheating thermostat
- 7 Alert light - presence of current

### Two-switch control

- Switch 1 off + Switch 2 on: ventilation only
- Switch 1 on + Switch 2 off: burner on with timed post ventilation
- Switch 1 on + Switch 2 on: burner on with continuous ventilation

## GA/N - DIRECT COMBUSTION LOW PRESSURE SUSPENDED SPACE HEATERS

		GA/N 250 C	GA/N 400 C (120V - 60 Hz)	GA/N 400 C (208/230V - 60 Hz)
		03GA721	03GA722	03GA822
heat input (G20)	BTU/h	250,000	400,000	400,000
inlet pressure (G20)	in wc	8-10	8-10	8-10
consumption (G20)	cfh	233,505	355,520	355,520
heat input (G31)	BTU/h	250,000	400,000	400,000
inlet pressure (G31)	in wc	8-13	8-13	8-13
consumption (G31)	cfh	85,941	141,950	141,950
US max efficiency	%	100	100	100
heated airflow	cfm	2,766	4,120	4,120
temperature rise (@68°F)	°F	540	612	612
electrical power	W	530	1,000	1,050
power supply	V - ph - Hz	120-1-60	120-1-60	208/230-1-60
unit/pallet	qty..	1	1	1
unit/container 20"	qty..	36	33	33
unit/container 40"	qty..	84	75	75
unit/container 40" HC	qty..	112	75	75



WEIGHTS AND DIMENSIONS MACHINE					PACKAGING			
MOD	A	B	C	Net	X	Y	H	Gross
	[in]	[in]	[in]	[lb]	[in]	[in]	[in]	[lb]
GA/N 250 C	45.1	23.2	17.4	101	46.9	26.0	24.57	134
GA/N 400 C	46.7	26.9	21.1	123	48.8	29.5	28.27	163

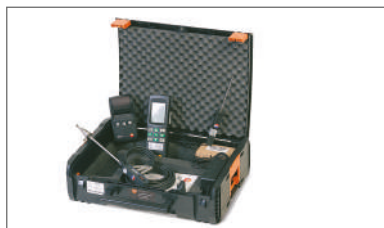
## EQUIPMENT



### **BACHARACH TEST SET**

Measures the quantity of black smoke residual present in exhaust fumes. Suited for burner calibration.

**Cod.** 99AM001



### **COMBUSTION FUME ANALYSER**

Analyzes the gas exhaust fumes elements: CO, CO<sub>2</sub>, λ, smoke temperature, O<sub>2</sub>.

**Cod.** 99AM011



### **MANOMETER**

Measures oil fuel pressure.

**Cod.** 99AM003



### **GAS MICROMANOMETER**

Measures gas pressure.

**Cod.** 99AM014



### **SPANNER WRENCH FOR OIL NOZZLE**

To remove or substitute the oil nozzle in the burners.

**Cod.** 99AM004



### **DIGITAL THERMOMETER**

To measure the exhaust and air temperature.

**Cod.** 99AM005



### **DECANTER**

Separates water present in the fuel.

**Cod.** 99AM018



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