

ApenGroup®



Industrial Heating and Conditioning

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ANNIVERSARY
55

ApenGroup®

AH-SPORT

UNIT FOR AIR DOMES
(PRESSOSTATIC AND TENSOSTATIC STRUCTURES)



DDMP FAN WITH
STANDARD INVERTER



SMARTWEB
(STANDARD)



ErP
2021



AH-SPORT, UNIT FOR AIR-DOMES (PRESSOSTATIC AND TENSOSTATIC STRICTURES)

AH-SPORT is a condensing direct exchange heating unit with modulating premixed burner.

The project, which is the result of Apen Group's technology and experience in the treatment of hot air, was carried out with the aim of obtaining a product of the highest quality, specially designed for sports environments.

INNOVATION AND TECHNOLOGY

The heart of the AH-SPORT units is represented by the stainless steel heat exchanger with the integrated modulating premixed gas burner with very low polluting emissions, which allows to reach efficiencies of 109%.

FIELDS OF APPLICATION

- Sports environments
- Air-supported structures: pressostatic and tensostatic structures.
- Tennis Courts
- Padel Courts
- Gyms
- Swimming pools
- Trade fairs
- Public entertainment venues.

AH-SPORT

Unit for air-domes (pressostatic and tensostatic strictures)

CERTIFIED QUALITY

The AH-SPORT heating unit is manufactured in accordance with UNI, UNICIG and CEI technical standards and certified by the Kiwa-Gastec approval body in accordance with the Gas Appliances Regulation.

HIGH QUALITY MATERIALS

The combustion chamber and the air-flue gas heat exchanger are entirely made of AISI 441 stainless steel with low carbon content to guarantee high reliability and long life.

ECODESIGN ErP 2021 CONFORMITY

The AH-SPORT units comply with the ECODESIGN ErP 2021 regulation.

GUARANTEED SAVINGS

Efficiency and savings on consumption are obtained thanks to DDMP fans with integrated high-efficiency inverter that manage air movement by reducing noise.

RANGE AVAILABILITY

Depending on size and space, a wide range of models from 105 kW to 320 kW is available.

AH-SPORT: TECHNICAL FEATURES

- Efficiency up to 108%.
- Available in 5 ranges of powers: 105 kW in the monobloc version, and 160 kW, 210 kW, 240 kW and 320 kW in the multiple modular version.
- Combustion chamber in AISI 441 stainless steel, heat exchanger tubes and flue gas collection box in AISI 441 stainless steel with low carbon content.
- Modulating premixed gas burner with low NOx emission in class 5 in accordance with EN regulation.
- Electronic board with continuous power modulation controlled by microprocessor, which allows energy savings up to 50%. Management and signalling of faults, ignition, switching off and modulation of the burner(s).
- It operates in conjunction with the SmartWeb chronothermostat via Modbus connection.
- The SmartWeb chronothermostat can be installed either on board the machine or remotely in the room, with the possibility of installing up to 3 remote probes in addition to the one on board the machine to manage a single zone. Ethernet connection with possibility of remote control via browser and http address.
- The unit switch-on and switch-off depend on the heat demand.
- Variable air flow rate.
- Modulating temperature regulation with PID control on both the ambient temperature and the flow temperature.
- DDMP fans with integrated high efficiency inverter.
- Safety thermostat and condensate detection electrode.
- Power supply 400V/3P/50Hz.
- Outdoor installation with standard roof.

STANDARD ACCESSORIES UNITS FOR TENSOSTATIC STRUCTURES

- SMART-WEB remote control with stand-alone chronothermostat function.
- Square/round nosepiece kit both in outlet and in intake.
- Fireproof damper kit both in outlet and in intake.
- Outdoor air regulation damper kit with manual control.
- Expulsion damper kit.

OPTIONAL ACCESSORIES

- Anemometer kit with dynamic variation of pressure value inside the dome.
- Wind-proof flue terminal kit.
- Snow control kit allowing burner's start-up in case of snow (whenever switched off).

STANDARD ACCESSORIES UNITS FOR PRESSOSTATIC STRUCTURES

- SMART-WEB remote control with stand-alone chronothermostat function.
- Square/round nosepiece kit both in outlet and in intake.
- Fireproof damper kit both in outlet and in intake.
- Expulsion damper kit.
- Motorized air recycling damper kit with modulating control.
- Over-pressure dampers kit.
- Pressure regulator integrated in the remote control complete with probe.



AH-SPORT: TECHNICAL FEATURES

OUR RANGE

5 models from 105 to 320 kW.

- 105 kW
- 160 kW
- 210 kW
- 240 kW
- 320 kW

EASY INSTALLATION

Easier installation for the technician.

IT IS sufficient to connect the gas line, the power supply. and the condensate drain.

HIGH EFFICIENCY HEAT EXCHANGER

AH-SPORT modular units integrate an advanced heat exchanger technology (built by robotic welding process) in high quality AISI 441 stainless steel with corrosion resistance, with longer lifetime that reduces life cycle costs.

MODULO SCAMBIATORE PCH A CONDENSAZIONE

The AH-Sport monobloc units are equipped with the PCH heat exchanger with condensing and modulating gas burner, with low NOx emissions, and built-in electronic control. The PCH module allows condensation to be achieved with efficiencies up to 108% calculated on the basis of the lower calorific value (Hi). The heating module is equipped with a burner with total air-gas premixing and a device for modulating the thermal power.

These two elements optimize PCH module output and guarantee:

- Zero emission of carbon monoxide (CO = 0).
- Very low emission of nitrogen oxides below 30 ppm (NOx <30 ppm).
- Reduced carbon dioxide emissions resulting from the high combustion efficiency (108%) and the reduction in fuel consumption

DDMP FANS

The AH-Sport monobloc units use the latest generation DDMP fans, in direct current with rotation speed control integrated in the electric motor. The high aerodynamic efficiency impeller is combined and controlled by a very high energy efficiency motor with integrated EC technology. DDMP fans move high airflows, with high efficiency and low noise, thanks to an optimized blade geometry in order to generate a reduced aerodynamic noise.

Significant energy savings are achieved thanks to the continuous control of the air flow and the adjustment of the number of fan revolutions (by acting on the Smart control supplied), consequently reducing the electricity consumption of the generator.



TECHNICAL FEATURES

- PCH condensing heating module housed inside.
- CPU-SMART control board for management and signaling of faults, ignition, shutdown and modulation of the burner.
- Outdoor installation.
- Efficiency up to 108%.
- Fixed point temperature regulation with "ambient compensation" by means of a probe positioned on the delivery line (NTC1).
- Switching on and off of the gas module subject to the request for external heat.
- Air handling managed by high efficiency DDMP ventilators powered by direct current with integrated frequency control.
- Variable air flow and settable via SMART command.



AH-SPORT SERIES

The Apen Group remote control of the new SmartWeb series acts as a stand-alone chronothermostat and can be used to control multiple types of systems.

Connection via 4 polarised cables is very simple.

Installation can be built-in or flush with the wall.

It is possible to install up to three remote probes in addition to the one on board the control. The controls are easy to use thanks to a 4.3" colour display and a very intuitive management menu. The user program is multilingual (9 languages).

The simplicity of connection, the clear and intuitive management menu and the possibility of reading up to 4 temperature points within the controlled zone make these chronothermostats versatile and suitable for different needs and types of system.

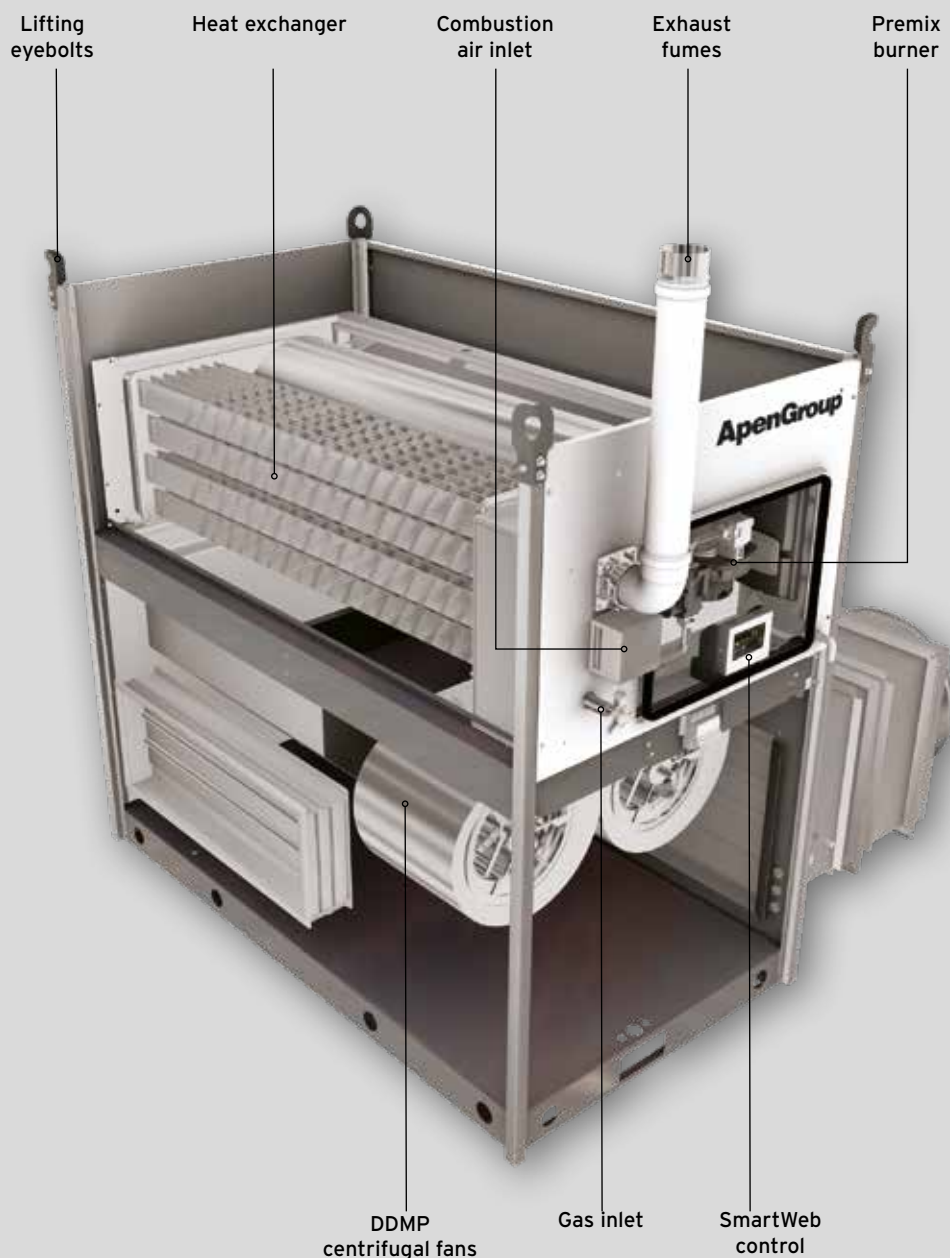


AH-SPORT UNIT COMPOSITION

AH-SPORT units are supplied complete with Apen Group integrated modulating premixed burner.

The premixed burner guarantees very low NOx and CO2 emissions and zero CO emissions, thanks to the high combustion efficiency (108%) and the reduction in fuel consumption resulting from the modulation of the heat output.

DDMP direct drive centrifugal fans are equipped with high efficiency EC motors and are more compact. The EC motor, with integrated inverter, has no slip losses and uses less energy than a conventional AC motor under all operating conditions (including partial load operation), making it significantly more efficient and economical.



AH-SPORT: STANDARD ACCESSORIES

SMARTWEB

- Simple connection to the heater using two polarized wires.
- Complete management of the operating parameters of the boards of the connected devices.
- Possibility to install 3 additional temperature probes.
- TFT monitor, 4,3" touch screen with 480x272 pixel resolution.
- Multilingual user program supported.



FIREPROOF DAMPER KIT

All the dampers have the following features:

- EI1205 Fire reaction.
- Tunnel made of galvanized sheet - 510 mm width.
- Thermal circuit breaker with fuse calibrated at 72°C
- IP55 switch already assembled on the damper.
- The dampers are supplied with certificate.

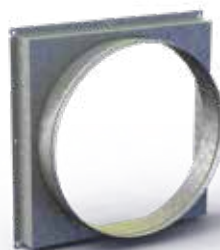


SQUARE / ROUND NOSEPIECE KIT

It allows to adjust heater's square sections for outlet or inlet to a round section for the connection of textile ducts.

The kit is composed by:

- Shaped duct in galvanized sheet.
- Bands for tarpaulin fastening.
- Screws for duct fixing



OUTSIDE AIR REGULATION DAMPER KIT

The air regulation damper is applied directly on the heaters. It is equipped with control for manual opening / closing adjustment and if required, it can be equipped with modulating or ON/OFF servomotor.



NOTE

The accompanying accessories differ between configuration for tensostatic roof coverings and pressostatic structures

OPTIONAL ACCESSORIES

SNOW CONTROL KIT

The snow control kit allows the burner to be started in case of snow whenever switched off.

ANEMOMETER KIT

The anemometer kit allows the dynamic variation of the pressure inside the balloon to counteract the action of the wind.

AH-SPORT: TECHNICAL DATA



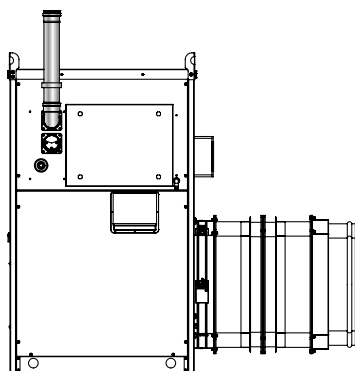
Code for Tensostatic Structure	Air Flow	Available Pressure	Useful Heat Output		Efficiency		Motor
	m³/h	Pa	min (kW)	max (kW)	min (%)	max (%)	kW
AH105IT-T	7.500	150	22,77	97,15	108,40	97,15	2x0,8
AH160IT-T	14.200	150	35,54	160,06	108,35	97,60	4x0,8
AH210IT-T	17.400	300	44,54	194,30	108,42	97,15	4x2,0
AH240IT-T	22.500	150	53,31	240,09	108,35	97,60	6x0,8
AH320IT-T	26.100	300	68,31	291,45	108,42	87,25	6x2,0



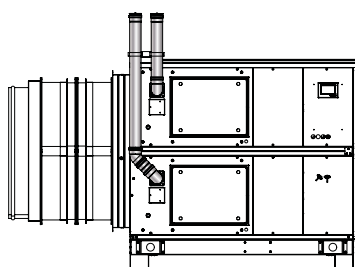
Code for Pressostatic Structure	Air Flow	Available Pressure	Useful Heat Output		Efficiency		Motor
	m³/h	Pa	min (kW)	max (kW)	min (%)	max (%)	kW
AH105IT-P	8.700	300	22,77	97,15	108,40	97,15	2x2,0
AH160IT-P	16.200	300	35,54	160,06	108,35	97,60	4x2,0
AH210IT-P	17.400	300	44,54	194,30	108,42	97,15	4x2,0
AH240IT-P	26.100	300	53,31	240,09	108,35	97,6	6x2,0
AH320IT-P	26.100	300	68,31	291,45	108,42	87,25	6x2,0

AH-SPORT: FUME EXHAUST

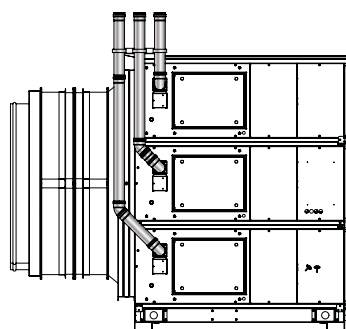
SEPARATE FUME EXHAUST IN ALUMINIUM



SINGLE SEPARATE FUME EXHAUST
MODEL AH105

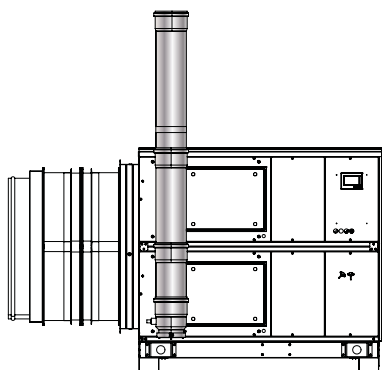


DOUBLE SEPARATE FUME EXHAUST
MODELS AH160/210

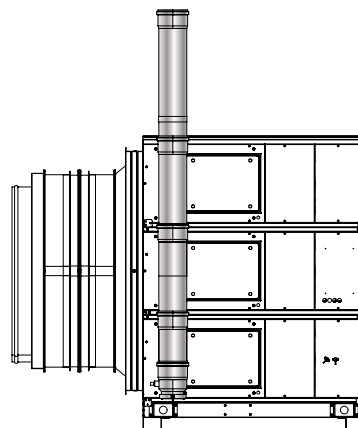


TRIPLE SEPARATE FUME EXHAUST
MODELS AH240/320

SEPARATE FUME EXHAUST IN STAINLESS STEEL AISI 316L

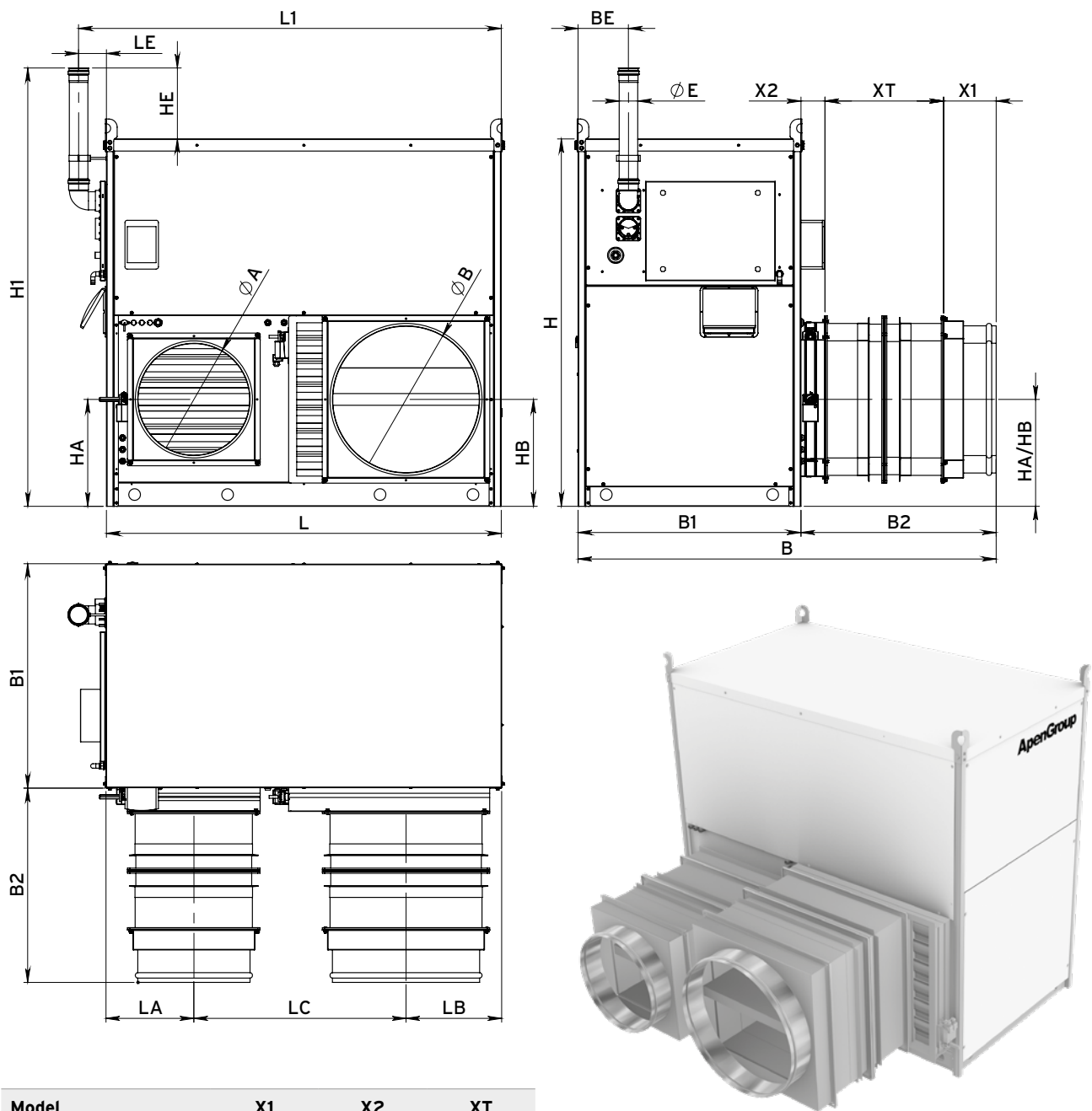


DOUBLE COLLECTIVE FUME EXHAUST
MODELS AH160/210



TRIPLE COLLECTIVE FUME EXHAUST
MODELS AH240/320

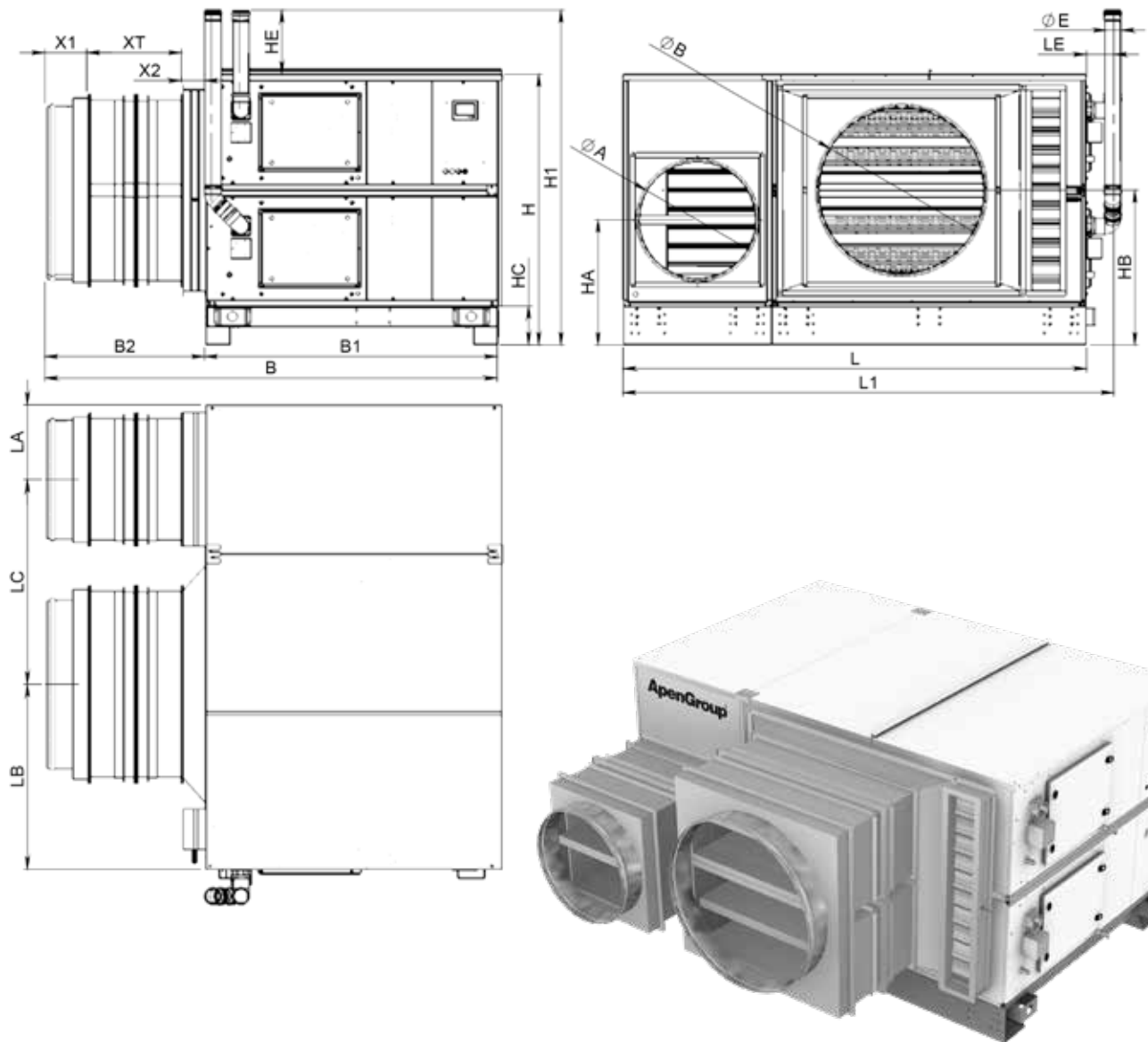
AH-SPORT: DIMENSIONS



Model	X1	X2	XT
AH105	225	105	510
AH160/210	225	125	510
AH240/320	225	200	510

Model	Overall Dimensions			Dimensions			Louver								Chimney				Gas
							Intake				Delivery								
	B	L	H	B1	L1	H1	B2	L2	LA	HA	ØA	LB	HB	ØB	BE	LE	HE	ØE	
AH105	1.800	1.700	1.580	960	1.820	1.885	840	912	378	460	483	410	460	633	217	120	305	1x80	1xG 3/4"

AH-SPORT: DIMENSIONS

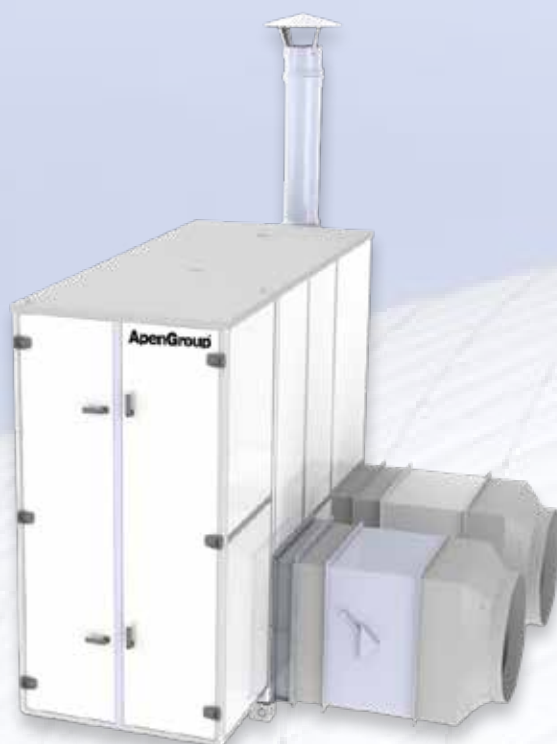


Model	Overall Dimensions			Dimensions				Louvres								Chimney			Gas
								Intake				Delivery							
	B	L	H	B1	L1	H1	HC	B2	LC	LA	HA	ØA	LB	HB	ØB	LE	HE	ØE	
AH160	2.460	2.500	1.485	1.600	2.650	1.810	210	860	1.105	400	675	633	995	835	900	145	350	2x80*	2xG 3/4"
AH210	2.460	2.500	1.485	1.600	2.650	1.810	210	860	1.105	400	675	633	995	835	900	145	350	2x80*	2xG 3/4"
AH240	2.535	2.815	2.110	1.600	2.965	2.435	210	935	1.260	560	945	900	995	1.147	1.200	145	350	3x80*	3xG 3/4"
AH320	2.535	2.815	2.110	1.600	2.965	2.435	210	935	1.260	560	945	900	995	1.147	1.200	145	350	3x80*	3xG 3/4"

*NOTE: the flue outlet may be "independent exhaust" or "common exhaust".

PK-SPORT

HEATERS FOR AIR-SUPPORTED STRUCTURES
(TENSOSTATIC ROOF COVERINGS AND
PRESSOSTATIC STRUCTURES)



PK-SPORT K

ErP 2021

HIGH EFFICIENCY



**VERIFY THE CORRECT
HEATER-BURNER
COUPLING IN ORDER
TO SATISFY ERP
REQUIREMENTS**

PK-SPORT

Heaters for air-supported structures
(tensostatic roof coverings and pressostatic structures)

PK-SPORT FLOOR-STANDING WARM AIR HEATERS

PK-Sport floor-standing warm air heaters have been designed for heating air-supported structures, pressostatic and tensostatic structures, tennis courts, gyms, swimming pools and storage warehouses.

THE HEAT THAT LASTS OVER TIME

The high-efficiency floor-standing heaters have been designed both to increase technical performance and therefore safety and quality, and to meet the increasingly frequent requests for customised solutions and adaptability to the environment. These machines therefore become an integral part of the building/system, whether in an industrial or tertiary sector.

FIELDS OF APPLICATION

- Sports environments
- Air-supported structures: pressostatic and tensostatic structures.
- Tennis Courts
- Padel Courts
- Gyms
- Swimming pools
- Trade fairs

**VERIFY
THE CORRECT
COUPLING
OF THE BURNER
TO SATISFY
ERP 2021
REQUIREMENTS**

QUALITY AND RELIABILITY

Quality and reliability are just some of the features that make Apen Group's floor-standing heaters "the excellence of the heating system".

Technology, ecology, safety and state-of-the-art construction methods determine the best possible efficiency of the machines and make PK-SPORT heaters a top product for all heating requirements.

SIMPLE INSTALLATION

The great flexibility, adaptability and possibility of customised installations make PK-SPORT floor-standing heaters a top level product for all heating requirements.

EASE OF MAINTENANCE

Simple and quick maintenance operations guarantee the maintenance of generator efficiency.

RANGE AVAILABILITY

Depending on size and space, a wide range of models from 100 kW to 550 kW is available.

PK-SPORT floor-standing heaters can be combined with both two-stage and modulating burners, which must be correctly matched to meet ErP 2021 requirements

DOUBLE VERSION

PK-Sport floor standing heaters can be supplied in two versions: Version T - for tensostatic structures. Version P - for pressostatic structures.

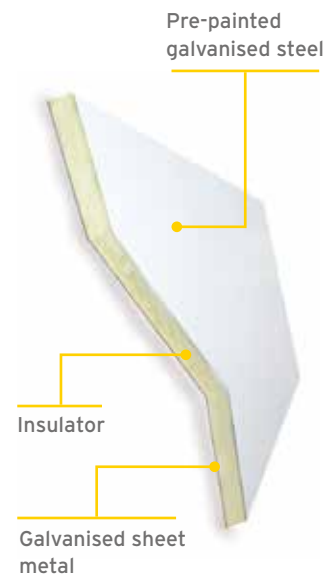
PK-SPORT: TECHNICAL FEATURES

COMBUSTION CIRCUIT

- Combustion chamber, made of AISI 441 stainless steel, characterised by a high exchange surface area (high volume compared to the unit heat load). Thanks to its particular shape it ensures low heat loads and uniform heat distribution.
- Flame reversing furnace, with combustion circuit with three flue passes, fully welded, to ensure a long life.
- High-efficiency heat exchanger made of AISI 441 stainless steel. Consisting of a tube bundle with an aerodynamic profile, it guarantees very little resistance to the passage of air, constant speed of the passage of flue gas and therefore high heat exchange.
- Patented tube bundle.
- T.I.G. welded heat exchanger tubes and plates.
- Inspection panels (one front panel and four rear panels on the heat exchanger) insulated with ceramic fibre.
- Peep-hole with combustion chamber pressure intake.
- Insulation panel for burner plate in mineral fibre.

STRUCTURE AND PANELLING

- Supporting structure (heater frame) in aluminium.
- Double sandwich panelling with glass wool insulation to reduce noise propagation and limit heat loss to the environment for the benefit of performance, consisting of:
 1. panels on the heat exchanger section, insulated, 25mm thick, complete with gaskets, consisting of an external panel in pre-painted galvanised steel, 1 mm thick, protected by plastic film, glass wool insulation material and an internal panel in galvanised steel, 0.6 mm thick, fixed with rivets to the external panel
 2. panels on the ventilating part, insulated with 25mm thickness, complete with gaskets, composed of external panel in pre-painted galvanised steel, protected by plastic film, insulating material in glass wool closed externally with glass fabric, fixed to the external panel by means of riveted galvanised steel crossbeams.
- All heaters are equipped with lifting hooks to be mounted.



FAN SECTION

- Fan section, depending on the different capacities of the heater, consisting of one or more centrifugal fans, with low speed rotation, to ensure lower noise levels.
- Statically and dynamically balanced and with double suction, the fans are driven by electric motors on belt tensioning slides and belt pulley transmissions.
- The protection degree of the fan motor is IP 54.
- Motor and fan support base in aluminium.

SAFETY DEVICES

- Fan thermostat and burner safety shut-off thermostat up to model PK-SPORT 320 (manual reset).
- Control panel conforming to current standards, in epoxy powder coated steel, with IP 40 protection rating for PKA-SPORT and IP44 for PKE-SPORT.
- IT IS equipped with:
 1. Main switch with door lock closure
 2. Summer/Off/Winter switch
- 3. Electrical protections, contactor and thermal relay for each motor/fan
- 4. Power indicator light
- 5. Thermal relay trip indicator light.

PK-SPORT: TECHNICAL FEATURES

DESCRIPTION

Floor standing heaters designed to heat air-supported structures, covering tennis courts, sports halls, swimming pools and warehouses.

VERSION T

TECHNICAL FEATURES FOR PK-SPORT - TENSOSTATIC ROOF COVERINGS

- Aluminium supporting framework.
- Double layer paneling with glass fiber insulation. It increases efficiency by reducing heat dispersion..
- Burner casing.
- AISI 441 stainless steel combustion chamber with wide exchange surface.
- Flame inversion with combustion chamber with three-pass, fully welded.
- High-efficiency heat exchanger made of stainless steel with low carbon content.
- Patented tube bundle (patent # MI94U00260).
- Double air intake, centrifugal fan.
- IP 54 protection degree for fan motor.
- Aluminium base for motor and fan.
- Fan base is funnel shaped to allow dynamic pressure recovery.
- Control box complying with EN60335-1 standard and protection degree IP 44.
- Fan and safety thermostat (manual reset).
- SMART-WEB remote control with stand-alone chronothermostat function.
- Ethernet connection with possible remote control via browser.
- Compliant with all EC applicable regulations.

VERSIO P

TECHNICAL FEATURES FOR PK-SPORT - PRESSOSTATIC STRUCTURES

- Aluminium supporting framework.
- Double layer paneling with glass fiber insulation. It increases efficiency by reducing heat dispersion..
- Burner casing.
- AISI 441 stainless steel combustion chamber with wide exchange surface.
- Flame inversion with combustion chamber with three-pass, fully welded.
- High-efficiency heat exchanger made of stainless steel with low carbon content.
- Patented tube bundle (patent # MI94U00260).
- Double air intake, centrifugal fan.
- IP 54 protection degree for fan motor.
- Aluminium base for motor and fan.
- Fan base is funnel shaped to allow dynamic pressure recovery.
- Control box complying with EN60335-1 standard and protection degree IP 44.
- Fan and safety thermostat (manual reset).
- SMART-WEB remote control with stand-alone chronothermostat function.
- Ethernet connection with possible remote control via browser.
- Integrated inverter.
- Set up for pressure regulation, wind and snow control integrated with the remote control.
- Compliant with all EC applicable regulations.

SMART EASY/WEB

The remote control SMART (WEB or EASY) acts as a stand-alone chronothermostat and can be used as a control for a single zone system at the same temperature.

The chronothermostat is equipped with a monitor from which it is possible to read and set all the parameters of the connected devices; it also offers the possibility of remote control of up to 3

external temperature probes, of managing the appliances in automatic or manual mode, of checking the operation of the burner, of programming a weekly or annual calendar and managing the daily time bands.



PK-SPORT: THE CERTIFIED HEAT

Apen Group has designed PK-Sport floor standing heaters specifically for sports environments:

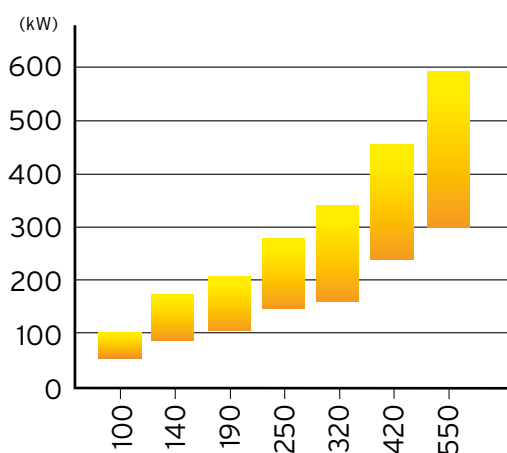
- Pressostatic structures;
- Tensostatic structures;
- Swimming pools;
- Trade fairs;
- Public entertainment venues.

Technical performance, safety, efficiency, quality, and the ability to meet the increasingly frequent requests for customised solutions and adaptability to the environment are just some of the features of our PK-SPORT heaters.

The aesthetics have been improved and the aluminum profiles on the panels harmonize the rigidity of the geometric figures.

HIGH EFFICIENCY PK-SPORT

- Efficiency up to 102%.
- Condensate drain included.

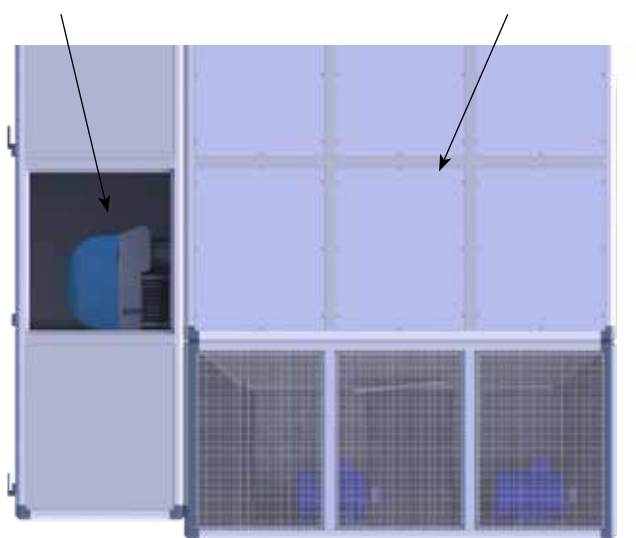


CHOOSE YOUR MODEL

The range of models is very wide and covers 7 capacities from 100 kW to 550 kW.

Burner compartment

PK-SPORT Heater

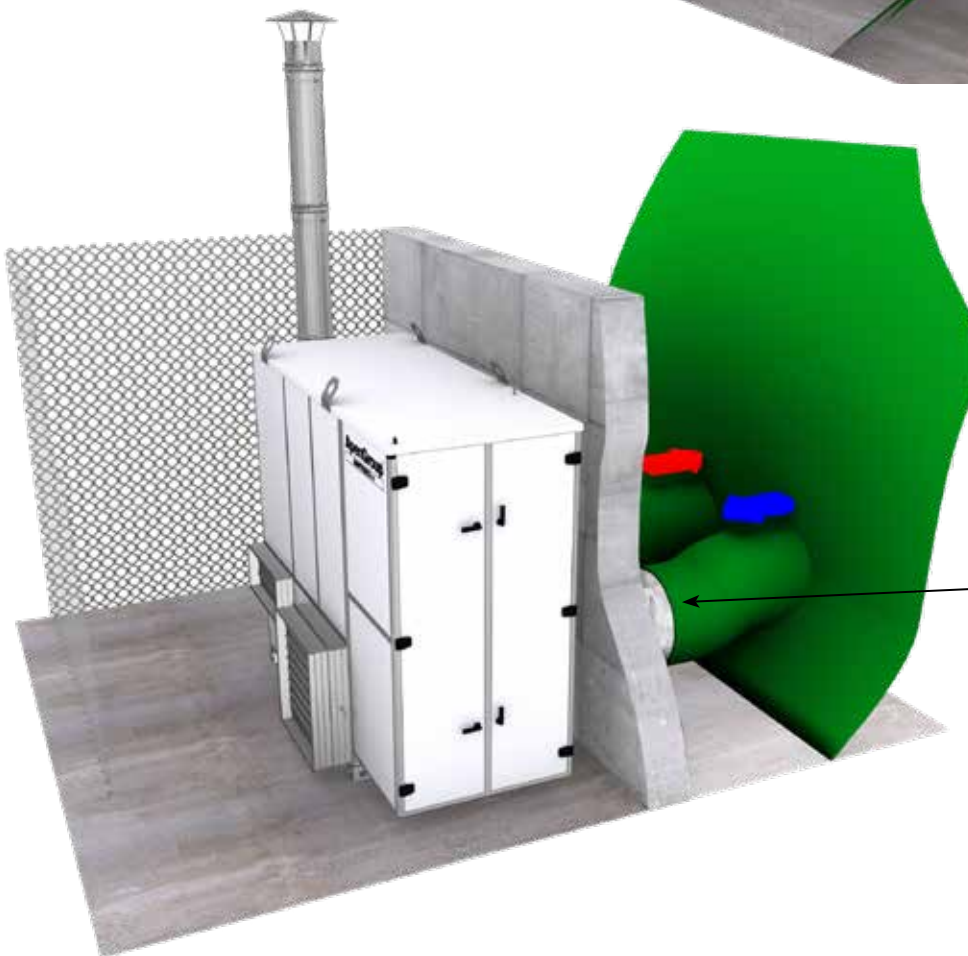
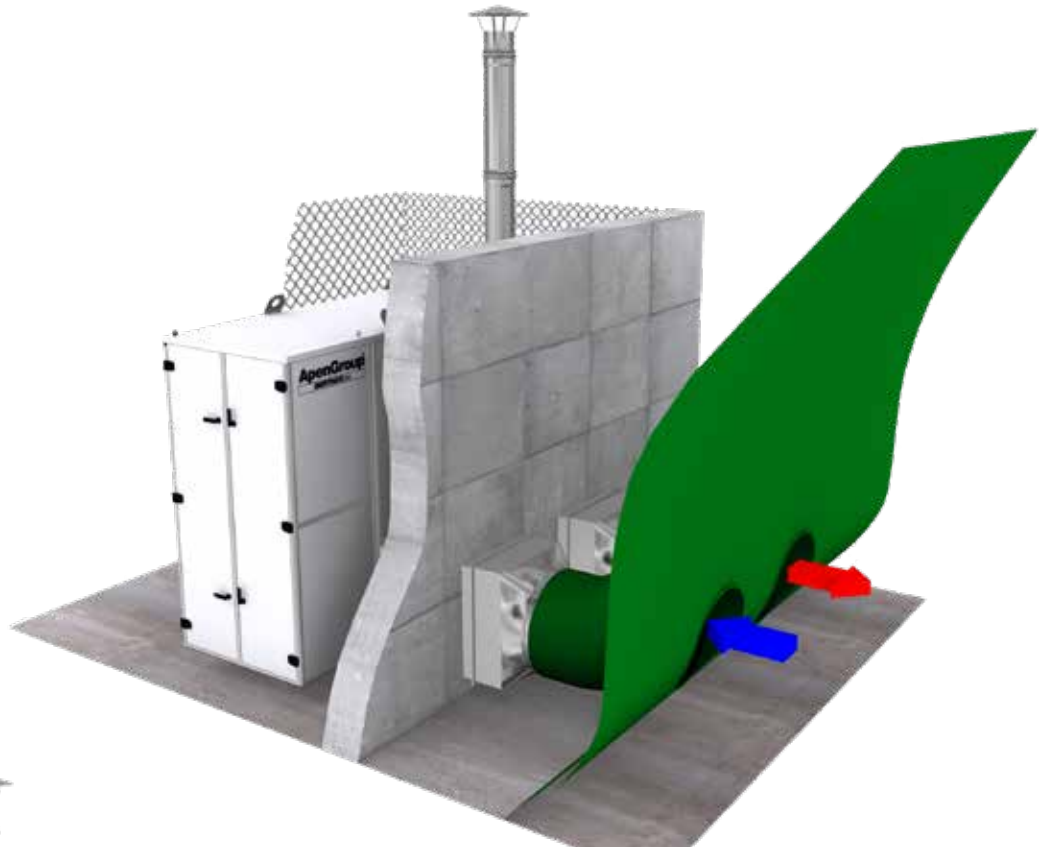


EXTERNAL BURNER

The generator is already supplied with the burner compartment suitable for being positioned outside. In fact, its casing guarantees IP54 protection against atmospheric agents.

PK-SPORT: TYPES OF INSTALLATION

The heater must be installed on a flat surface capable of supporting its weight in a stable and safe way, it must be positioned in such a way as to respect the minimum distances necessary for correct air flow both inside and outside the machine and to ensure normal checks and maintenance interventions. It is also mandatory to insert a network or other device that avoids the narrowing of the channel during the operation of the machine.



It is mandatory to insert a net or other device that avoids the narrowing of the channel during the operation of the machine

PK-SPORT: ACCESSORIES ON DEMAND

All the electrical panels of PK-Sport warm air heaters use a modulation card and a wiring card that allow a safe and simple connection of the components commonly used in air heating systems.



INVERTER KIT ONLY FOR VERSION T

Inverter kit is supplied mounted on the heater. Matching an inverter to heaters with three-phase power supply allows to adjust the air flow and the air pressure of the heater itself.

The regulation can be done automatically by controlling the air pressure with a pressure probe.

Pressure regulation is managed through the CPU board

PRESSURE CONTROL KIT ONLY FOR VERSION P

In pressostatic structures is mandatory for the correct functioning of the automatic pressure control, the installation of:

- A - Modulating servomotor;
- B - Return regulation damper;
- C - Over-pressure damper.

The pressure regulator acts:

- when burner is OFF, on fans speed by means of inverter;
- when burner is ON, on recycling damper regulation.

MODULANTING SERVOMOTOR KIT

The kit is used to mechanically modulate the position of the shutters.

RETURN OR RECIRCULATION ADJUSTMENT DAMPER

Damper kit with manual control, to adjust the amount of air taken from the internal environment.



MANUAL OR OVERPRESSURE, EXTERNAL AIR REGULATION DAMPER

Regulation damper kit, complete with manual control and protection net, to set a partialization with external air. Overpressure damper kit with protection net for pressure switch structures.

FLUE GAS DISCHARGE SHUTTER KIT

Flue gas discharge shutter kit, with ON/OFF servomotor with manual reset.

FIRE DAMPER DELIVERY/INTAKE DUCT

REI 120 fire shutter kit for the delivery and/or for the intake complete with duct and wired micro-switch at 72 ° C, to turn off the burner and automatically block the spread of flames in case of fire.



FLUE SYSTEMS

The heater is a B23 type appliance, i.e. without a draught switch and equipped with a fan (the burner fan) upstream of the heat exchanger.

The heater can be connected to both flues and chimneys..

SINGLE-WALL FLUE OUTLET KIT

Single-wall flue outlet kit made of stainless steel complete with 2 meters of straight pipe, tee joint, weather protection cover, condensate collection cap, and bracket for chimney support.

DOUBLE-WALL FLUE OUTLET KIT

Stainless steel double-wall flue outlet kit complete with 2 meters of straight pipe, tee joint, weather protection cover, condensate collection cap, and bracket for chimney support.

DRY SISTEM KIT

The dry system kit is an accessory that allows you to control the degree of humidity inside the environment by adjusting the recirculation air and the outside air.

SNOW CONTROL KIT

The snow control kit allows the burner to be started if there is snow when it is switched off.

ANEMOMETER KIT

The anemometer kit allows the dynamic variation of the pressure inside the balloon to counteract the action of the wind.

STANDARD ACCESSORY: ROOM THERMOSTAT

The PK-Sport heater is supplied with Smart-Web remote control as standard with the function of stand alone chronothermostat.

BURNER

Ordered units can include the burner on request.

SIMPLE MAINTENANCE

All maintenance operations are particularly simple and fast and guarantee the maintenance of the heater efficiency.

To access the heat exchanger, simply remove the flue system cover. The fan can be cleaned with a compressor and a vacuum cleaner..

GUARANTEED SAVINGS

PK-SPORT heaters guarantee real savings in terms of:

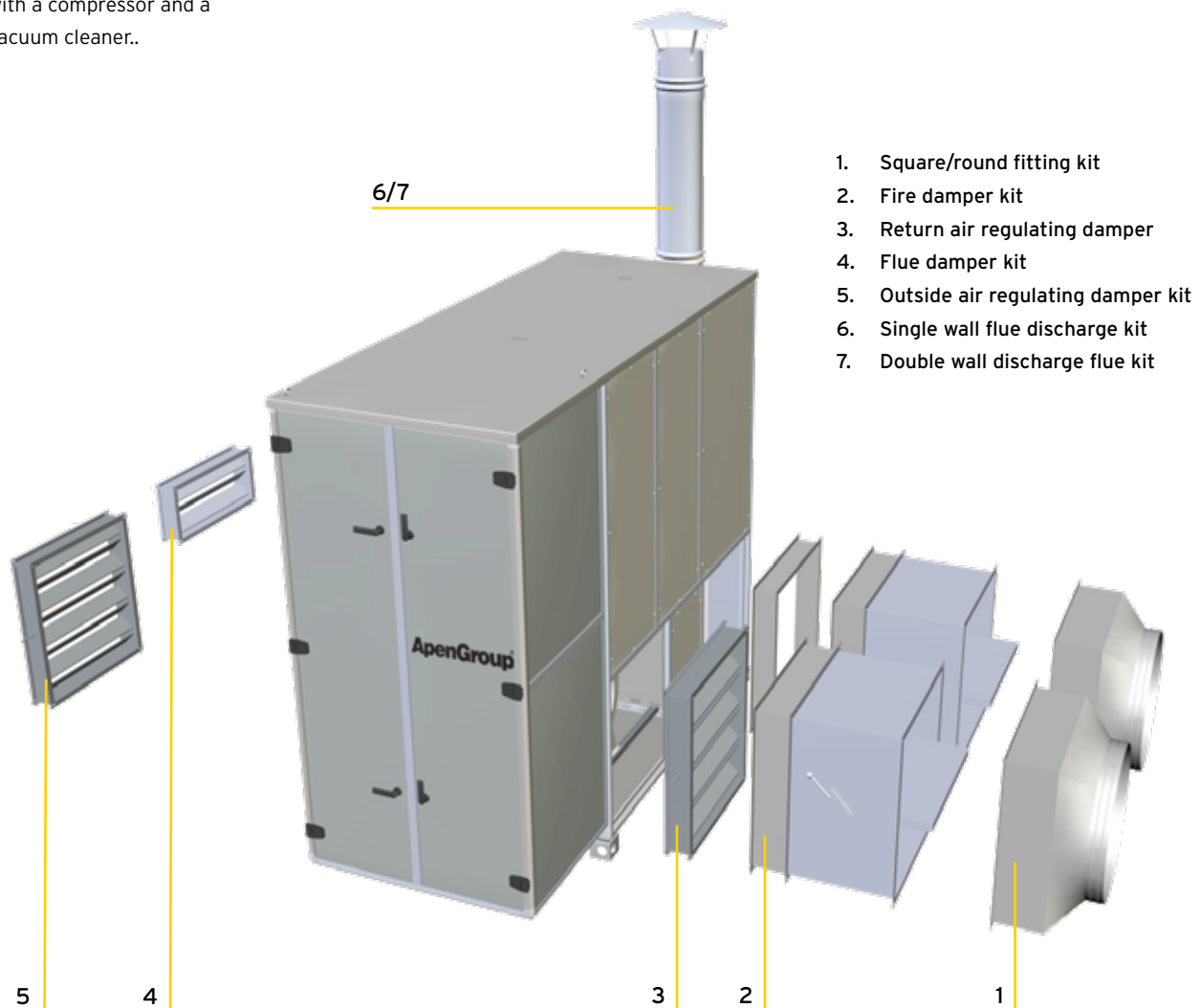
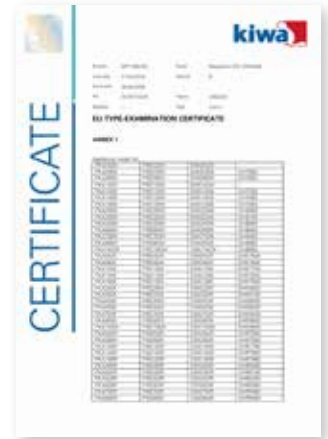
- Operation: high efficiency and quick room heating guarantee efficiency and reduced consumption
- Management: maintenance operations are quick and easy and certainly not recurrent.

CERTIFIED QUALITY

PK-SPORT heaters are manufactured in compliance with all applicable standards.

They are certified by Kiwa Gastec according to the 2016/426/EU gas appliances regulation.

Moreover, each heater has been approved to operate with a working range between a minimum and a maximum value.



PK-SPORT: TECHNICAL DATA

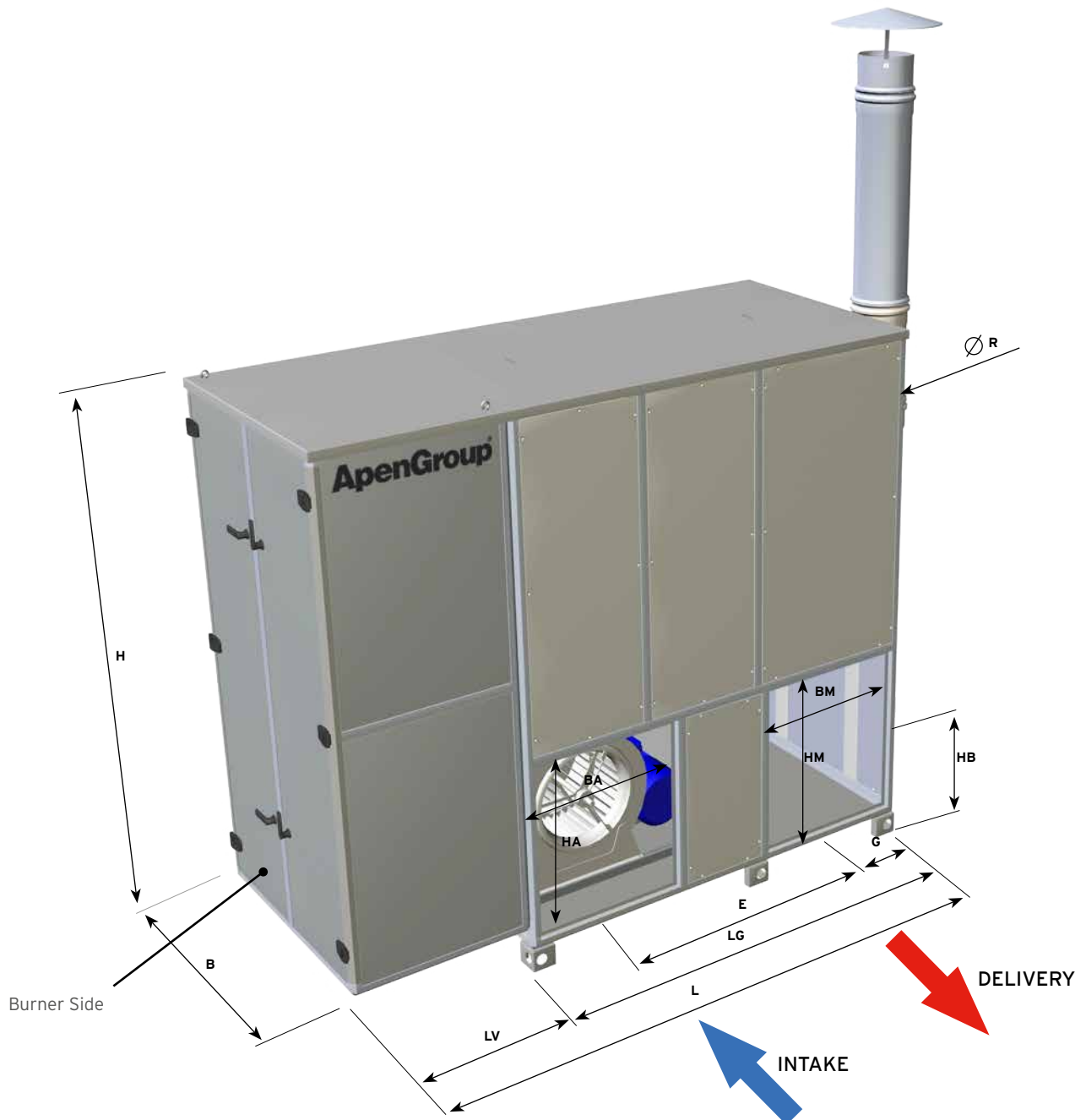


Code for Tensostatic Roof Covering	Useful Heat Output		Nominal Heat Input	Efficiency %	Weight	Air Flow	Available Pressure
	max (kW)	min (kW)					
PKE100K-T	105	27	114	102,4	445	7.000	300
PKE140K-T	141	39	152	101,2	525	9.800	300
PKE190K-T	185	48	200	100,5	650	13.400	300
PKE250K-T	249	62	270	101,1	845	18.200	300
PKE320K-T	320	75	347	101,0	990	21.800	300
PKE420K-T	419	84	455	101,0	1200	30.000	300
PKE550K-T	549	96	595	101,2	1450	35.000	300



Code for Pressostatic Structures	Useful Heat Output		Nominal Heat Input	Efficiency %	Weight	Air Flow	Available Pressure
	max (kW)	min (kW)					
PKE100K-P	105	27	114	102,4	445	7.000	300
PKE140K-P	141	39	152	101,2	525	9.800	300
PKE190K-P	185	48	200	100,5	650	13.400	300
PKE250K-P	249	62	270	101,1	845	18.200	300
PKE320K-P	320	75	347	101,0	990	21.800	300
PKE420K-P	419	84	455	101,0	1200	30.000	300
PKE550K-P	549	96	595	101,2	1450	35.000	300

PK-SPORT: DIMENSIONS



Dimensions *

Models	Size					Intake and Delivery							
	B	H	L	LG	LV	BA	HA	BM	HM	E	G	HB	$\varnothing R$
PKE100-T / PKE100-P	800	2.120	1.955	1.455	500	500	800	500	800	875	290	540	180
PKE140-T / PKE140-P	920	2.180	2.170	1.570	600	500	800	500	800	990	290	540	180
PKE190-T / PKE190-P	1.060	2.330	2.480	1.750	730	600	800	600	800	1.070	340	540	250
PKE250-T / PKE250-P	1.140	2.430	2.760	1.960	800	700	800	700	800	1.180	390	540	250
PKE320-T / PKE320-P	1.140	2.610	3.110	2.310	800	800	800	800	800	1.430	440	540	250
PKE420-T / PKE420-P	1.340	3.100	3.310	2.460	850	900	1.100	900	1.100	1.205	490	700	300
PKE550-T / PKE550-P	1.340	3.270	3.600	2.600	1.000	900	1.190	900	1.190	1.600	500	745	300

* Dimensions are the same for both the T version and the P version.



APEN GROUP S.p.A.
Via Isonzo, 1 - Pessano con Bornago
20042 (Milan) - Italy
Tel +39 02 95 96 931 Fax +39 02 95 74 27 58
www.apengroup.com apen@apengroup.com
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