

ApenGroup®



KONDENSA serie LK
RAPID PRO serie LRP
Wall-mounted warm air heaters

ApenGroup®

KONDENSA LK RAPID PRO LRP

WALL-MOUNTED WARM AIR HEATERS



SMART CONTROLS
OPTIONAL



ON/OFF CONTROL
OPTIONAL



ErP
2021



KONDENSA AND RAPID PRO

Wall-mounted warm air heaters

ECOLOGY AND ENERGY SAVING

Kondensa LK and Rapid Pro LRP warm air heaters are characterised:

- by the high quality of the materials used, such as AISI 441 stainless steel, pre-painted panels and state-of-the-art electronics
- by premixing combustion systems, with very low polluting emissions
- by innovative and efficient production systems
- by reliability and safety guaranteed by 100% factory testing

FIELDS OF APPLICATION

- Logistics
- Depots and Warehouses
- Facilities
- Sheds
- Shopping malls

HIGH QUALITY MATERIALS

Combustion chamber and heat exchanger are manufactured entirely from AISI 441 high quality stainless steel (with low carbon content) which assures maximum reliability and long life cycle.

GUARANTEED SAFETY

An advanced technique of pre-mix burners guarantees total safety.

The gas valve delivers gas according to the air/gas ratio set at factory.

If combustion air fails, the gas valve closes. If combustion air decreases, the valve automatically reduces gas flow while maintaining optimal combustion parameters.

SYSTEM MODULARITY

The subdivision of the total heat output over several installed fan heaters makes it possible to achieve greater rationalisation of the system: "zone" management of the heat output delivery. The integration of heat output is limited to the installation of new appliances.

MODULATING BURNER

The flexibility and turndown of modulating burners allows each heater (whether a single unit or multiple unit system) ensure that the correct amount of heat is being delivered by the appliance(s) demanded by the control system

VERSATILITY OF INSTALLATION

The heaters of the serie KONDENSA and RAPID-PRO can also be installed hanged to the ceiling through eyebolts or with downwards air blow.

SUMMER VENTILATION

It is possible to set the machine to operate in ventilation mode, improving the comfort of the room in which the heater is installed.

INNOVATION AND TECHNOLOGY

The microprocessor-based electronic card, of KONDENSA and RAPID-PRO heaters, regulates continuous modulation of heat output and controls both the burner fan and the gas valve.

CLEAN COMBUSTION

The burner fully premixes gas and combustion air, providing each heater with the following benefits:

- No carbon monoxide emissions - CO=0.
- Very low nitrogen oxides emissions, approximately 30 ppm
- Low emission of CO₂, due to high combustion efficiency and to reduction of fuel consumption arising from heat output modulation.

SAFETY AND CONTROL DEVICES

Safety and control devices include:

1. Safety thermostat with manual reset.
2. Electronic ignition device for the burner and ionisation flame control device.
3. Ignition and flame detection electrodes.

DIRECT THERMAL EXCHANGE: NO WATER SUPPLY

The thermal energy produced by the burner is transferred to the air by means of a heat exchanger that contains the products of combustion. This ensures maximum transference of heat into the supply air stream without any contact with the products of combustion.

This method provides instant heating benefits for the space being served.

The absence of intermediate fluid prevents the realization of the hydraulic system and the inherent problems in the freezing water. Because there is no requirement for water the inherent problems associated with such systems are avoided.

KONDENSA LK CONDENSING WARM AIR HEATERS

TECHNICAL FEATURES

- Power from 5 kW to 97 kW
- Sealed combustion circuit
- Combustion chamber in AISI 441 stainless steel, heat exchanger tubes and flue gas collection box in AISI 441 stainless steel with low carbon content
- Efficiency up to 108% in relation to the lower heating value (Hi)
- Modulating premixed gas burner with low NOx emission in class 5 in accordance with EN 1020 2009
- Electronic board with continuous power modulation controlled by microprocessor, which allows energy savings up to 50%
- Very high reduction of air stratification
- Use of a sophisticated air/gas mixing technique that makes the heater absolutely safe
- Safety thermostat and condensate detection electrode
- 230V single-phase 50Hz power supply
- Multifunctional LCD display for diagnostics control
- CE approval in compliance with all applicable regulations



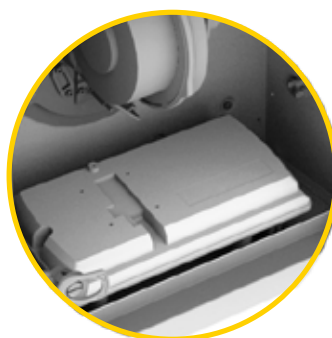
RAPID PRO LRP MODULATING WARM AIR HEATERS

TECHNICAL FEATURES

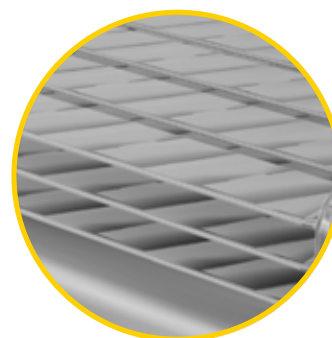
- Outputs range from 9 kW to 92 kW;
- Sealed combustion circuit;
- INOX AISI 441 stainless steel combustion chamber, INOX AISI 441 stainless steel heat exchanger tubes and flue collection box made of low carbon content;
- Efficiency up to 97% (ncv);
- Premixed gas modulating burner, low NOx emissions (class 5) in compliance with EN 1020 2009 standards;
- Electronic control board with continuous modulation of heat output, controlled by a microprocessor, which allows energy savings of up to 40%;
- Very high reduction of air stratification;
- An advanced technique of air/gas mixing guarantees total heater safety;
- Safety thermostat;
- 230V/1ph/50Hz supply voltage;
- In compliance with all applicable EC regulations (0476CQ0451);
- A version of suspended heater RAPID PRO serie LRP with centrifugal fan and mixing box is available upon request.



Premix Burner



Electronic Card



Stainless Steel Tube Bundle

LK / TECHNICAL DATA

Model		LK020	LK034	LK045	LK065	LK080	LK105
Type of equipment		B23 - B23P - C13 - C33 - C43 - C53 - C63					
NOx Class	Val	5					
Heater Performance							
		min	max	min	max	min	max
Nominal heat input (Hi)	kW	4.75	19.00	7.60	34.85	8.50	42.00
Useful heat output [P_{min} , P_{rated}]*	kW	4.97	18.18	8.13	33.56	9.00	40.40
Hi Efficiency (N.C.V.) [η_{pl} , η_{nom}]*	%	104.63	95.68	106.97	96.30	105.88	96.19
Hs efficiency (G.C.V.) [η_{pl} , η_{nom}]*	%	94.26	86.20	96.37	86.76	95.39	86.66
Flue losses with burner on (Hi)	%	0.4	4.3	0.6	3.7	0.5	2.7
Flue losses with burner off (Hi)	%	<0,1		<0,1		<0,1	
Max. quantity of condensation ⁽¹⁾	l/h	0.4		0.9		1.1	
Flue Gas Emissions							
Carbon monoxide - CO - (0% of O ₂) ⁽²⁾	ppm	< 5		< 5		< 5	
Emissions of nitrogen oxides NOx - (0% of O ₂) (HI) ⁽³⁾		29 mg/kWh - 16 ppm		51 mg/kWh - 29 ppm		36 mg/kWh - 20 ppm	
Pressure available at the flue	Pa	80		90		100	
Electrical Characteristics							
Supply voltage	V	230 Vac - 50 Hz single-phase					
Absorbed electrical power	kW	0.147	0.180	0.270	0.310	0.280	0.310
Protection Rating	IP	IP20					
Operating Temperatures	°C	-15°C to +40°C - lower temperatures require a burner compartment heating kit ⁽⁸⁾					
Connections							
Gas connection Ø ⁽⁴⁾	GAS	UNI/ISO 228/1-G 3/4	UNI/ISO 228/1-G 3/4	UNI/ISO 228/1-G 3/4	UNI/ISO 228/1-G 3/4	UNI/ISO 228/1-G 3/4 ⁽⁵⁾	UNI/ISO 228/1-G 3/4 ⁽⁵⁾
Intake/exhaust pipes Ø	mm	80/80	80/80	80/80	80/80	100/100 ⁽⁶⁾	100/100 ⁽⁶⁾
Air Flow Rate							
Air flow rate (15°C)	m ³ /h	2700	4300	4500	7800	9000	11100
Air temperature increase	°C	5.28	19.30	5.42	22.37	5.73	25.74
Number and diameter of fans		1 x Ø350	1 x Ø 450	1 x Ø450	2 x Ø400	2 x Ø450	3 x Ø400
Fans speed	rpm	1370	1370	1370	1370	1370	1370
Sound pressure (Lp) ⁽⁷⁾	dB(A)	44	49	49	51	52	54
Weight							
Net Weight	kg	58	72	79	98	129	145

NOTES:

* Symbol in accordance with Reg. EU/2281/2016.

(1) Max. condensation produced acquired from testing at 30%Qn.

(2) Value referred to cat. H (G20)

(3) Weighted value to EN1020 ref. to cat. H (G20), referred to Hi (N.C.V.).

(4) The gas line must be measured according to the length of the routing and not to the appliance diameter. For countries requiring an ISO connection different from the one shown, an adaptor will be supplied.

(5) For the LK080 and LK105 models, the minimum gas supply duct diameter must be UNI/ISO 228/1- G 1".

(6) Ø100/100 obtained by using adaptors supplied as standard.

(7) Measured at a distance of 6 m from the machine.

(8) If the burner housing heater kit is installed, add 105 W (230V) to the rated power value on the nameplate.

Model		LRP018	LRP028	LRP035	LRP045	LRP055	LRP075	LRP102							
Type of equipment		B23 - B23P - C13 - C33 - C43 - C53 - C63													
NOx Class	Val	5													
Heater Performance															
		min	max	min	max	min	max	min	max	min	max	min	max	min	max
Nominal heat input (Hi)	kW	10,1	16,5	16	27	20,2	34,8	26	44	29,8	52,2	44,4	73,5	51,8	100,0
Useful heat output [P_{min} , P_{rated}]*	kW	9,7	15,1	15,4	24,6	19,6	32,4	25,0	40,6	28,8	48,1	42,5	67,5	49,9	91,1
Hi Efficiency (N.C.V.) [η_{pl} , η_{nom}]*	%	95,8	91,8	96,3	91,2	96,8	93,1	96,3	92,3	96,8	92,1	95,8	91,8	96,4	91,1
Hs efficiency (G.C.V.) [η_{pl} , η_{nom}]*	%	86,2	82,6	86,7	82,1	87,1	83,8	86,7	83,1	87,1	82,9	86,2	82,6	86,8	82,0
Flue losses with burner on (Hi)	%	4,2	8,2	3,7	8,8	3,2	6,9	3,7	7,7	3,2	7,9	4,2	8,2	3,6	8,9
Flue losses with burner off (Hi)	%	<0,1		<0,1		<0,1		<0,1		<0,1		<0,1		<0,1	
Flue Gas Emissions															
Carbon monoxide - CO - (0% of O ₂) ⁽¹⁾	ppm	<5		<5		<5		<5		<5		<5		<5	
Emissions of nitrogen oxides NOx - (0% of O ₂) (Hi) ⁽²⁾		51 mg/kWh - 29 ppm	55 mg/kWh - 31 ppm	42 mg/kWh - 24 ppm	55 mg/kWh - 31 ppm	46 mg/kWh - 26 ppm	60 mg/kWh - 34 ppm	67 mg/kWh - 38 ppm							
Pressure available at the flue	Pa	80	100	120	120	130	140	140							
Electrical Characteristics															
Supply voltage	V	230 Vac - 50 Hz single-phase													
Absorbed electrical power	kW	0,1	0,143	0,15	0,197	0,13	0,184	0,25	0,32	0,268	0,33	0,454	0,493	0,49	0,582
Protection Rating	IP	IP 20													
Operating Temperatures	°C	-15°C to +40°C - lower temperatures require a burner compartment heating kit ⁽⁷⁾													
Connections															
Gas connection Ø ⁽³⁾	GAS	UNI/ISO 228/1-G 3/4"	UNI/ISO 228/1-G 3/4"	UNI/ISO 228/1-G 3/4"	UNI/ISO 228/1-G 3/4"	UNI/ISO 228/1-G 3/4"	UNI/ISO 228/1-G 3/4"	UNI/ISO 228/1-G 3/4"	UNI/ISO 228/1-G 3/4"	UNI/ISO 228/1-G 3/4"	UNI/ISO 228/1-G 3/4"	UNI/ISO 228/1-G 3/4"	UNI/ISO 228/1-G 3/4"	UNI/ISO 228/1-G 3/4"	UNI/ISO 228/1-G 3/4"
Intake/exhaust pipes Ø	mm	80/80	80/80	80/80	80/80	80/80	80/80	80/80	80/80	80/80	80/80	80/80	80/80	100/100 ⁽⁵⁾	100/100 ⁽⁵⁾
Air Flow Rate															
Air flow rate (15°C)	m ³ /h	2000	2700	3100	3100	4300	4500	4500	4500	7800	7900	7900	7900	7900	7900
Air temperature increase	°C	13,9	21,7	16,4	26,1	18,1	30,0	16,7	27,1	18,4	30,6	15,6	24,8	18,1	33,5
Number and diameter of fans		1 X Ø350 (6P)	1 X Ø350 (4P)	1 X Ø450 (6P)	1 X Ø450 (4P)	1 X Ø450 (4P)	1 X Ø450 (4P)	1 X Ø450 (4P)	1 X Ø450 (4P)	2 X Ø400 (4P)	2 X Ø400 (4P)	2 X Ø400 (4P)	2 X Ø400 (4P)	2 X Ø400 (4P)	2 X Ø400 (4P)
Fans speed	rpm	920	1370	970	1370	970	1370	970	1370	1370	1370	1370	1370	1370	1370
Sound pressure (Lp) ⁽⁶⁾	dB(A)	34	44	40	40	40	49	40	49	49	49	51	51	51	51
Weight															
Net weight	kg	58	58	68	68	70	70	78	78	78	102	102	102	123	123

NOTES:

* Symbol in accordance with Reg. EU/2281/2016.

(1) Value referred to cat. H (G20)

(2) Weighted value to EN1020 ref. to cat. H (G20), referred to Hi (N.C.V.).

(3) The gas line must be measured according to the length of the routing and not to the appliance diameter. For countries requiring an ISO connection different from the one shown, an adaptor will be supplied.

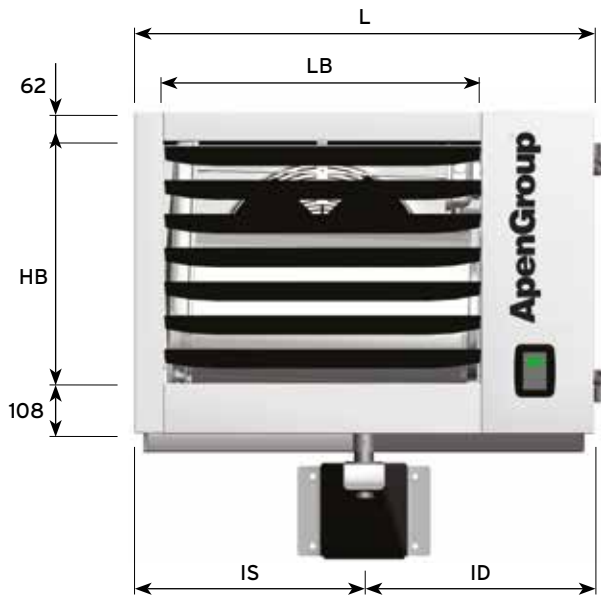
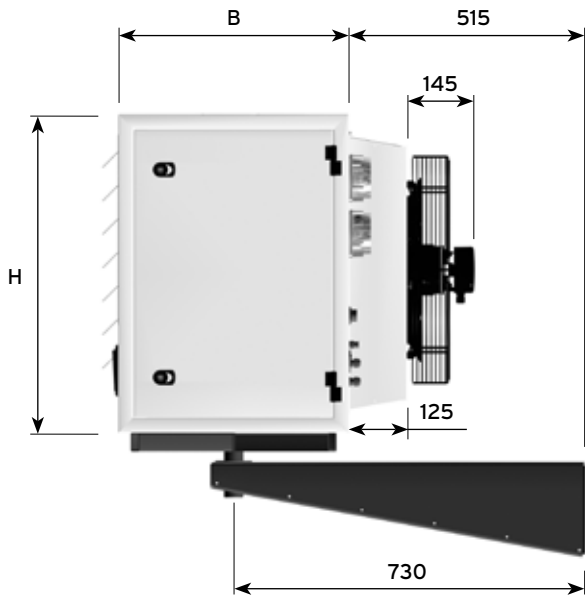
(4) For the LK080 and LK105 models, the minimum gas supply duct diameter must be UNI/ISO 228/1- G 1".

(5) Ø100/100 obtained by using adaptors supplied as standard.

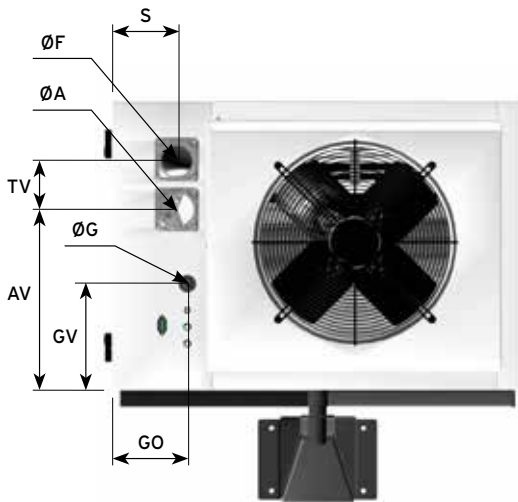
(6) Measured at a distance of 6 m from the machine.

(7) If the burner housing heater kit is installed, add 105 W (230V) to the rated power value on the nameplate.

LK / DIMENSIONS

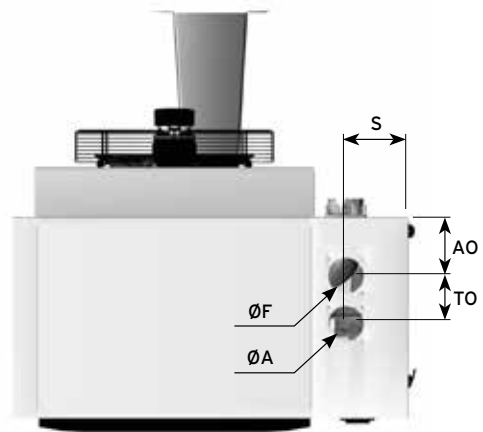


Model	Overall dimensions			Louvre		Shelf		GAS supply		
	B	H	L	HB	LB	IS	ID	ØG	GO	GV
LK020	500	690	795	520	490	395	400	3/4"	180	255
LK034	500	690	985	520	680	490	495	3/4"	180	255
LK045	500	765	985	595	680	490	495	3/4"	180	255
LK065	500	765	1310	595	1010	605	710	3/4"	180	255
LK080	500	845	1515	675	1180	720	795	3/4"	210	275
LK105	500	845	1740	675	1410	805	935	3/4"	210	275



Model	Horizontal exhausts (STD)				
	A	F	AV	TV	S
LK020	80	80	430	120	155
LK034	80	80	430	120	155
LK045	80	80	505	120	155
LK065	80	80	505	120	155
LK080	100*	100*	560	140	185
LK105	100*	100*	560	140	185

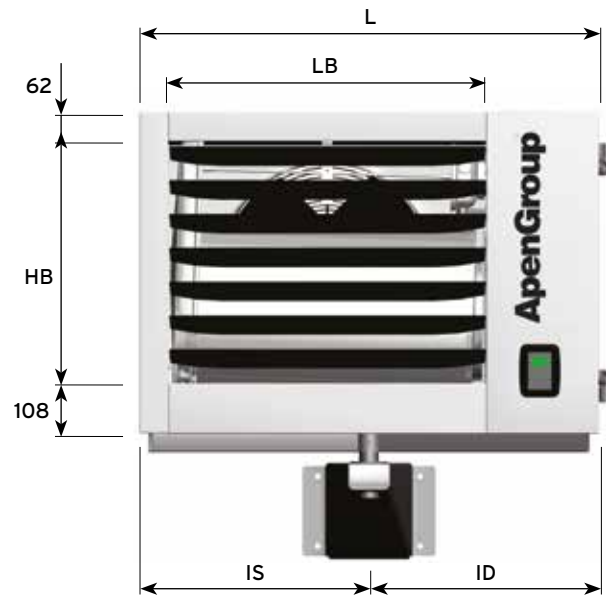
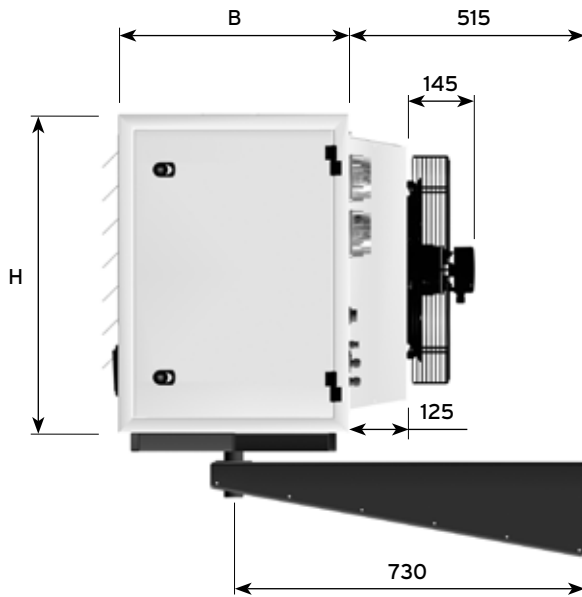
*Obtained by using the adaptors supplied as standard



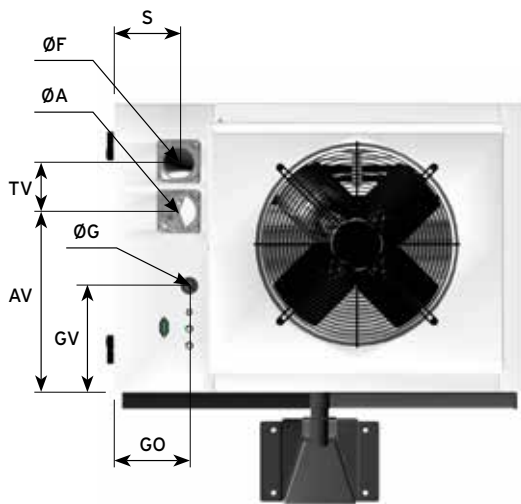
Model	Vertical exhausts (OPT.)				
	A	F	AV	TV	S
LK020	80	80	145	120	155
LK034	80	80	145	120	155
LK045	80	80	145	120	155
LK065	80	80	145	120	155
LK080	100*	100*	145	140	185
LK105	100*	100*	145	140	185

*Obtained by using the adaptors supplied as standard

LRP / DIMENSIONS

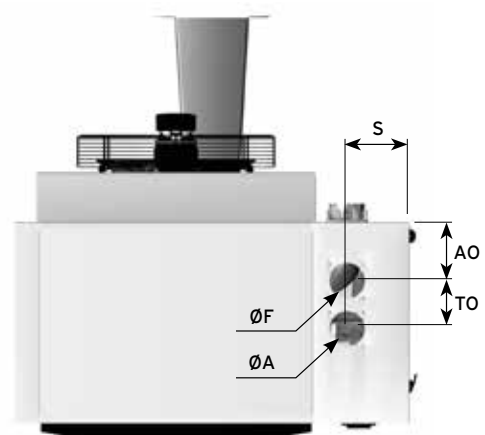


Model	Overall dimensions			Louver		Shelf		Supply GAS		
	B	H	L	HB	LB	IS	ID	ØG	GO	GV
LRP018	500	690	795	520	490	395	400	3/4"	180	255
LRP028	500	690	795	520	490	395	400	3/4"	180	255
LRP035	500	690	985	520	680	490	495	3/4"	180	255
LRP045	500	690	985	520	680	490	495	3/4"	180	255
LRP055	500	765	985	595	680	490	495	3/4"	180	255
LRP075	500	765	1310	595	1010	605	710	3/4"	180	255
LRP102	500	845	1515	675	1180	720	795	3/4"	210	275



Model	Horizontal exhausts (STD)				
	A	F	AV	TV	S
LRP018	80	80	430	120	155
LRP028	80	80	430	120	155
LRP035	80	80	505	120	155
LRP045	80	80	505	120	155
LRP055	80	80	505	120	155
LRP075	80	80	505	120	155
LRP102	100*	100*	560	140	185

*Obtained by using the adaptors supplied as standard



Model	Vertical exhausts (OPT.)				
	A	F	AV	TV	S
LRP018	80	80	145	120	155
LRP028	80	80	145	120	155
LRP035	80	80	145	120	155
LRP045	80	80	145	120	155
LRP055	80	80	145	120	155
LRP075	80	80	145	120	155
LRP102	100*	100*	145	140	185

*Obtained by using the adaptors supplied as standard

LKC WITH CENTRIFUGAL FAN / TECHNICAL DATA

Model		LKC034		LKC045		LKC065	
Type of equipment		B23 - B23P - C13 - C33 - C43 - C53 - C63					
NOx Class	Val	5					
Heater Performance							
		min	max	min	max	min	max
Nominal heat input (Hi)	kW	7.60	34.85	8.50	42.00	12.40	65.00
Useful heat output [P_{min}, P_{rated}]*	kW	8.13	33.56	9.00	40.40	13.40	62.93
Hi Efficiency (N.C.V.) [η_{pl}, η_{nom}]*	%	106.97	96.30	105.88	96.19	108.06	96.82
Hs efficiency (G.C.V.) [η_{pl}, η_{nom}]*	%	96.37	86.76	95.39	86.66	97.36	87.22
Flue losses with burner on (Hi)	%	0.6	3.7	0.5	2.7	0.2	3.2
Flue losses with burner off (Hi)	%	<0,1		<0,1		<0,1	
Max. quantity of condensation ⁽¹⁾		0.9		1.1		2.1	
Flue Gas Emissions							
Carbon monoxide - CO - (0% of O ₂) ⁽²⁾	ppm	< 5		< 5		< 5	
Emissions of nitrogen oxides NOx - (0% of O ₂) (HI) ⁽³⁾		51 mg/kWh - 29 ppm		36 mg/kWh - 20 ppm		45 mg/kWh - 25 ppm	
Pressure available at the flue	Pa	90		100		120	
Electrical Characteristics							
Supply voltage	V	230 Vac - 50 Hz single-phase					
Absorbed electrical power	kW	0.270	0.310	0.280	0.310	0.420	0.510
Protection Rating	IP	IP20					
Operating Temperatures	°C	-15°C to +40°C - lower temperatures require a burner compartment heating kit ⁽⁵⁾					
Connections							
Gas connection \emptyset ⁽⁴⁾	GAS	UNI/ISO 228/1-G 3/4		UNI/ISO 228/1-G 3/4		UNI/ISO 228/1-G 3/4	
Intake/exhaust pipes \emptyset	mm	80/80		80/80		80/80	
Air Flow Rate							
Air flow rate (15°C)	m ³ /h	3050		4650		5650	
Available pressure	Pa	140		140		140	
Rated power	kW	1120		1120		1120	

NOTES:

* Symbol in accordance with Reg. EU/2281/2016.

(1) Max. condensation produced acquired from testing at 30%Qn.

(2) Value referred to cat. H (G20)

(3) Weighted value to EN1020 ref. to cat. H (G20), referred to Hi (N.C.V.).

(4) The gas line must be measured according to the length of the routing and not to the appliance diameter. For countries requiring an ISO connection different from the one shown, an adaptor will be supplied.

(5) If the burner housing heater kit is installed, add 105 W (230V) to the rated power value on the nameplate.

LRP-00CO WITH CENTRIFUGAL FAN / TECHNICAL DATA

Model		LRP035-00CO		LRP055-00CO		LRP075-00CO	
Type of equipment		B23 - B23P - C13 - C33 - C43 - C53 - C63					
NOx Class	Val	5					
Heater Performance							
		min	max	min	max	min	max
Nominal heat input (Hi)	kW	20,2	34,8	29,8	52,2	44,4	73,5
Useful heat output [P_{min} , P_{rated}]*	kW	19,6	32,4	28,8	48,1	42,5	67,5
Hi Efficiency (N.C.V.) [η_{pl} , η_{nom}]*	%	96,8	93,1	96,8	92,1	95,8	91,8
Hs efficiency (G.C.V.) [η_{pl} , η_{nom}]*	%	87,1	83,8	87,1	82,9	86,2	82,6
Flue losses with burner on (Hi)	%	3,2	6,9	3,2	7,9	4,2	8,2
Flue losses with burner off (Hi)	%	<0,1		<0,1		<0,1	
Flue Gas Emissions							
Carbon monoxide - CO - (0% of O ₂) ⁽¹⁾	ppm	<5		<5		<5	
Emissions of nitrogen oxides NOx - (0% of O ₂) (Hi) ⁽²⁾		42 mg/kWh - 24 ppm		46 mg/kWh - 26 ppm		60 mg/kWh - 34 ppm	
Pressure available at the flue	Pa	120		130		140	
Electrical Characteristics							
Supply voltage	V	230 Vac - 50 Hz single-phase					
Absorbed electrical power	kW	0,13	0,184	0,268	0,33	0,454	0,493
Protection Rating	IP	IP 20					
Operating Temperatures	°C	-15°C to +40°C - lower temperatures require a burner compartment heating kit ⁽⁴⁾					
Connections							
Gas connection \emptyset ⁽³⁾	GAS	UNI/ISO 228/1-G 3/4"		UNI/ISO 228/1-G 3/4"		UNI/ISO 228/1-G 3/4"	
Intake/exhaust pipes \emptyset	mm	80/80		80/80		80/80	
Air Flow Rate							
Air flow rate (15°C)	m ³ /h	3050		3050		4650	
Available pressure	Pa	140		140		140	
Rated power	kW	1120		1260		2080	

NOTES:

* Symbol in accordance with Reg. EU/2281/2016.

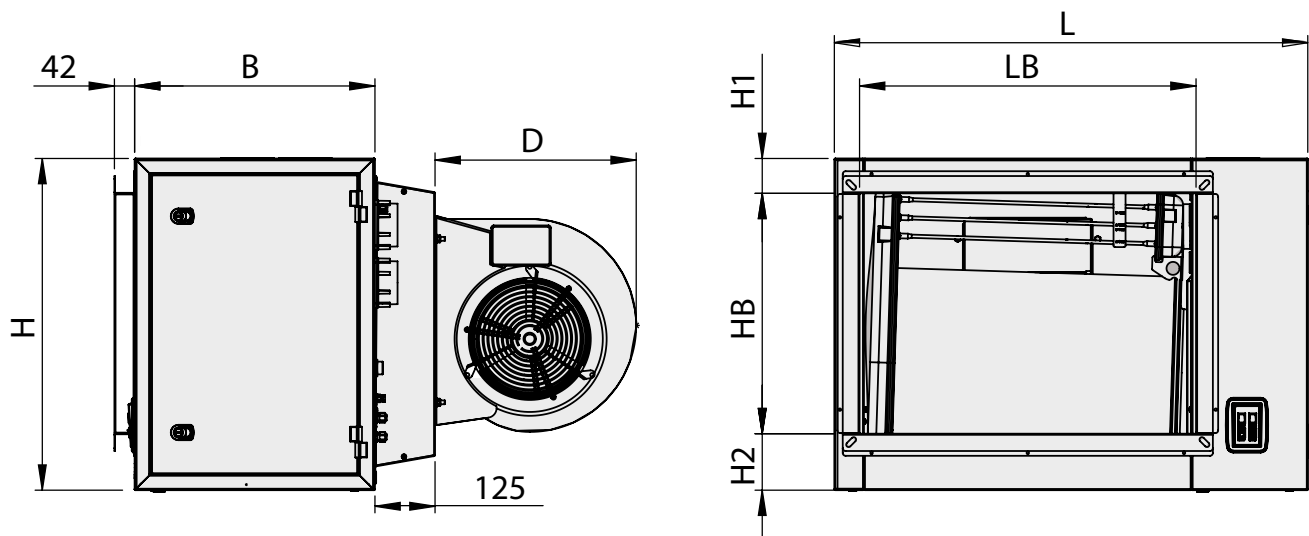
(1) Value referred to cat. H (G20)

(2) Weighted value to EN1020 ref. to cat. H (G20), referred to Hi (N.C.V.).

(3) The gas line must be measured according to the length of the routing and not to the appliance diameter. For countries requiring an ISO connection different from the one shown, an adaptor will be supplied.

(4) If the burner housing heater kit is installed, add 105 W (230V) to the rated power value on the nameplate.

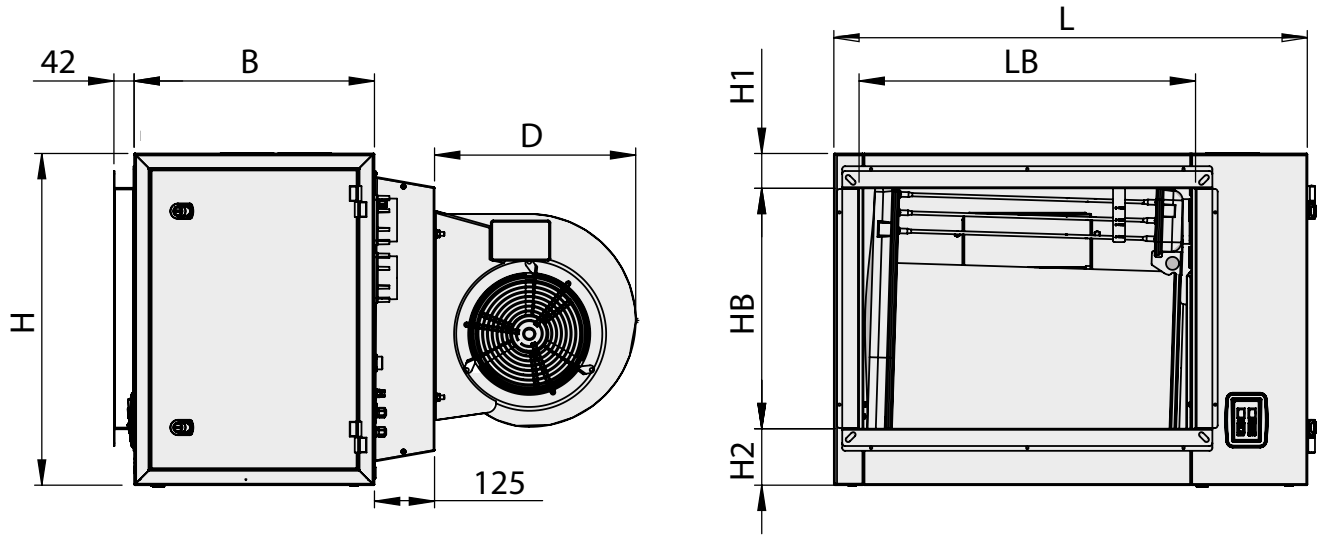
LKC WITH CENTRIFUGAL FAN / DIMENSIONS



KONDENSA SERIE LKC WITH CENTRIFUGAL FAN

Model	Overall Dimensions				Louvers			Gas Supply			
	B	H	L	D	HB	LB	H1	H2	ØG	GO	GV
LKC 034	500	690	985	420	500	700	73,5	117,5	3/4"	180	255
LKC 045	500	765	985	480	600	700	61,0	105,0	3/4"	180	255
LKC 065	500	765	1.310	420	600	1.000	61,0	105,0	3/4"	180	255

LRP-00CO WITH CENTRIFUGAL FAN / DIMENSIONS

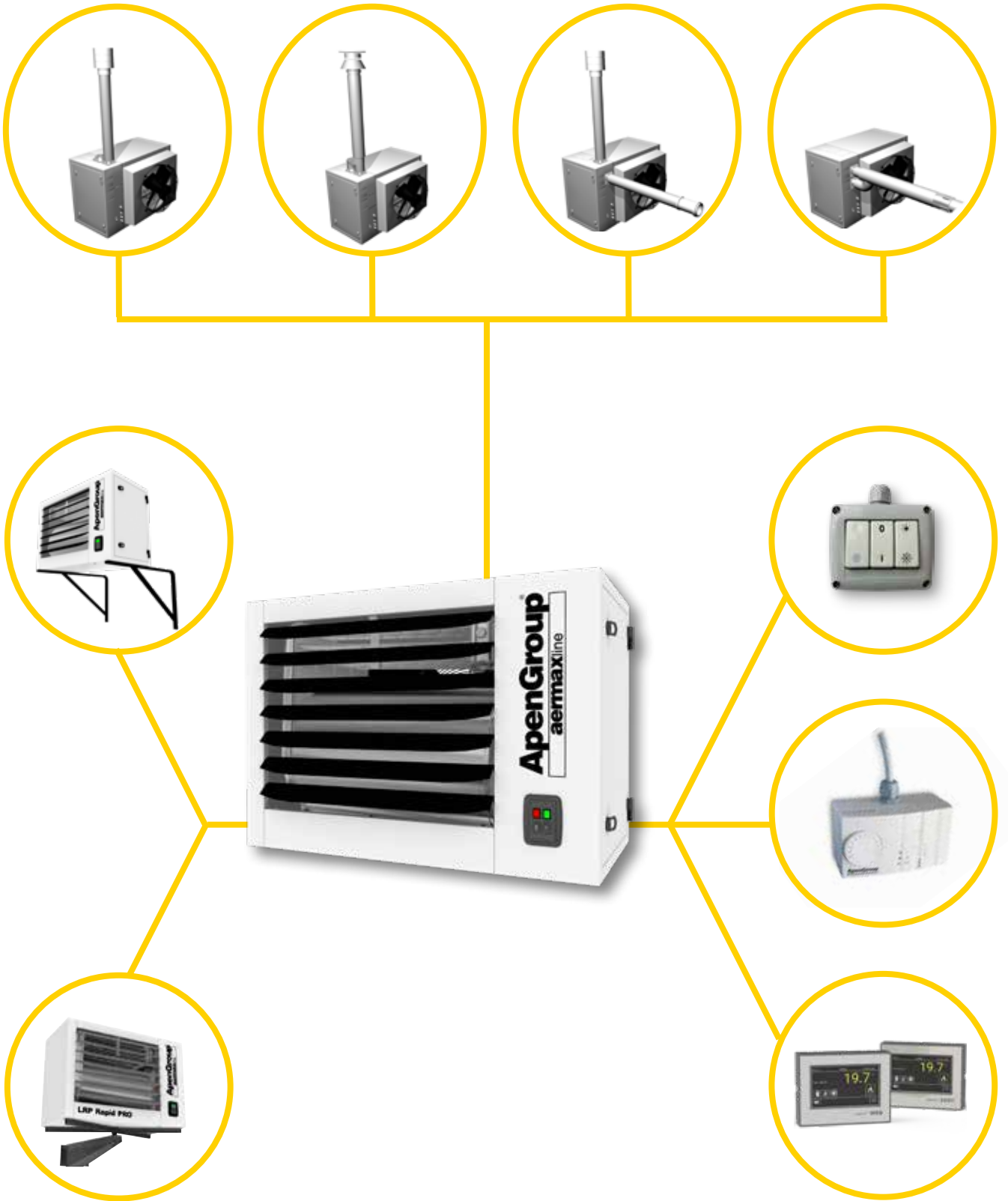


RAPID PRO SERIE LRP-00CO WITH CENTRIFUGAL FAN

Model	Overall Dimensions				Louvers				GAS Supply		
	B	H	L	D	HB	LB	H1	H2	ØG	GO	GV
LRP035-00CO	500	690	985	425	500	700	74	118	3/4"	180	255
LRP055-00CO	500	765	985	490	600	700	61	105	3/4"	180	255
LRP075-00CO	500	765	1310	420	600	1000	61	105	3/4"	180	255



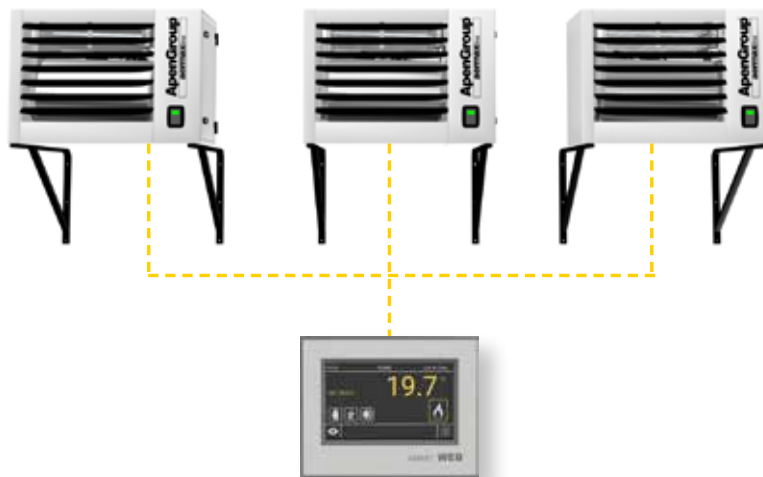
ACCESSORIES



HEATER'S CONTROLS

SMARTWEB / SMARTEASY CONTROLS

Apen Group's new remote control SMARTWEB and SMARTEASY series perform the functions of standalone timeclock and thermostat and can be used in a system that controls up to 32 heaters installed in a single zone.



BASIC REMOTE CONTROL

It allows the following settings:

- On/Off button
- Summer/Winter switch and Reset button.

It can be used with a thermostat to regulate room temperature, switch to summer or winter working mode, turn off the heater without powering the unit off, display burner lock and reset the burner after a lock.



REMOTE CONTROL WITH THERMOSTAT

Control of turning ON/OFF with the room temperature regulation, with Summer/Winter switch and Reset button.

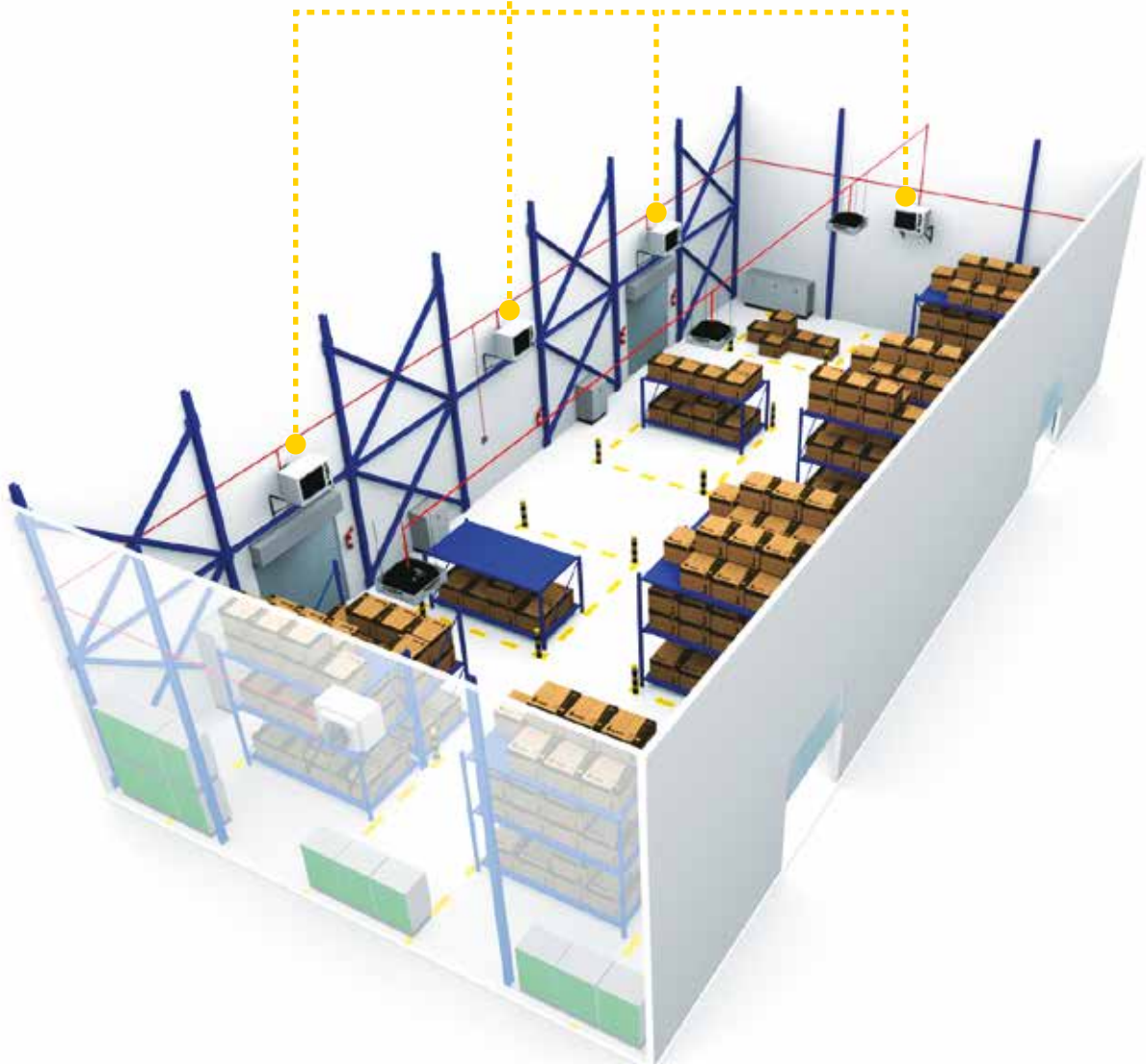
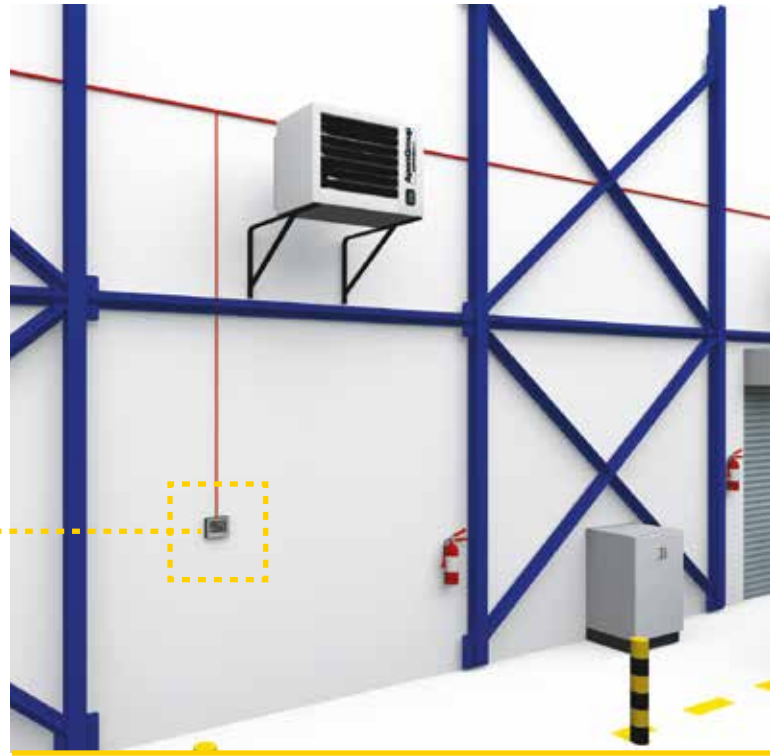


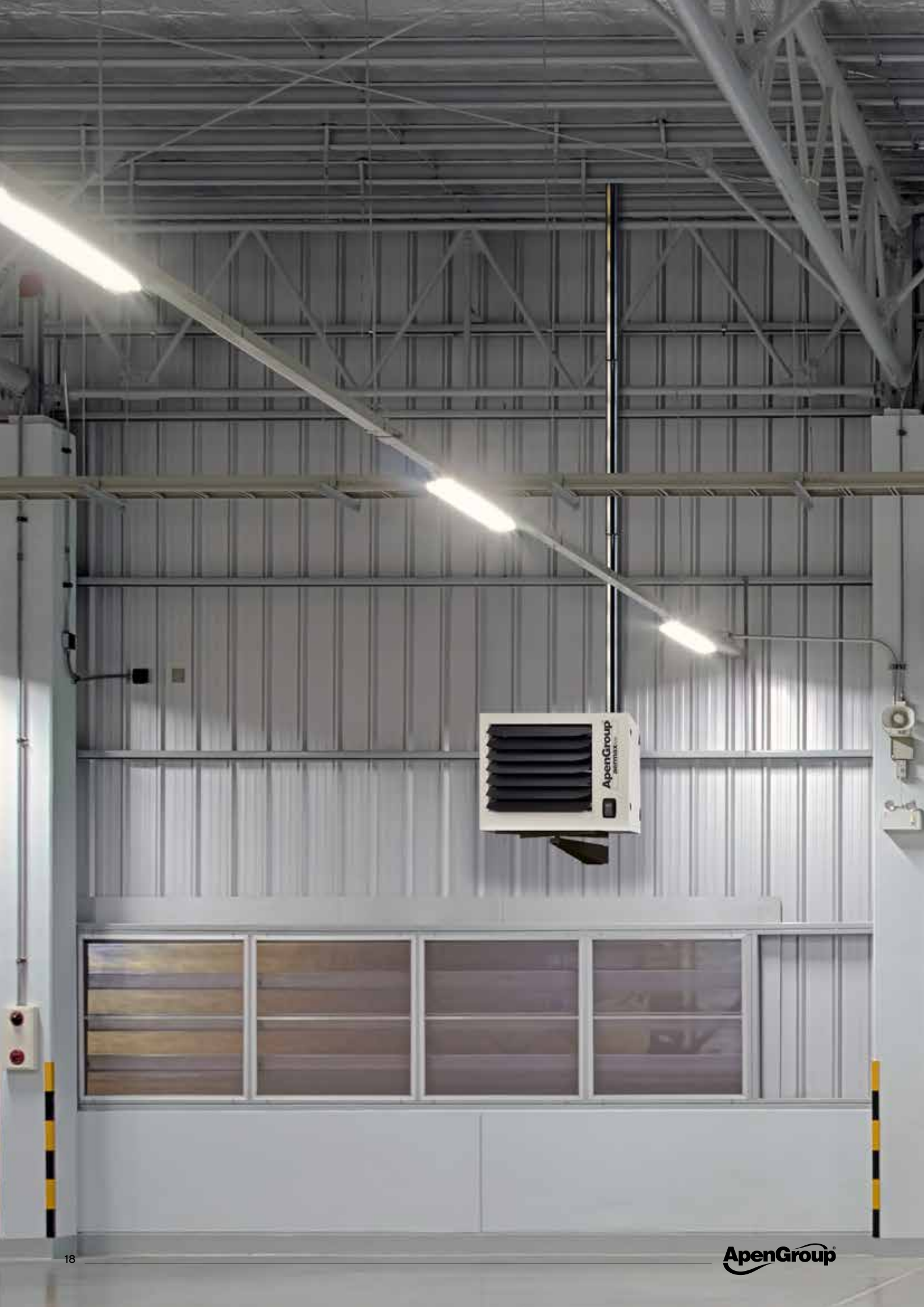
SMARTWEB AND SMARTEASY CONTROLS



FEATURES

- Simple connection to the heater using four polarized wires (2 wires for modbus control and 2 for electrical supply, 12 V);
- It manages all the functions, regulations and resetting;
- Possibility to install 3 additional temperature probes;
- Has a 4.3" touch screen with resolution 480x272 pixel;
- Supports the following languages: italian, english, spanish, french, german, dutch, czech, polish and rumenian;
- Additionally, SMARTWEB version allows connection to the internet via ethernet to remotely control the installation;
- It can be installed from the beginning or added later as an optional accessory.





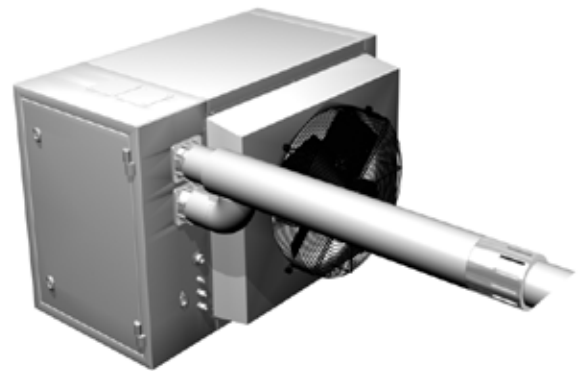
ApenGroup
airmax

EXHAUST FUMES TERMINALS



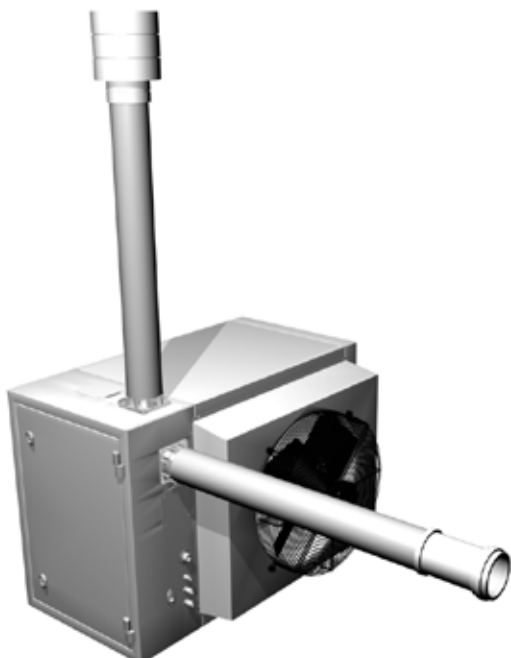
TIPO B23 - VERTICAL

Open combustion circuit, combustion air intake from indoor, external flue exhaust on the roof.



TIPO C13 - HORIZONTAL COAXIAL

Combustion circuit is sealed from the room. Piping is connected to outdoor using one concentric terminal through the wall.



TIPO C53

Sealed combustion circuit. Both pipes are connected to outdoor through different walls.



TIPO C33 - COAXIAL CONNECTION TO ROOF

Sealed combustion circuit. Piping is connected to outdoor using one concentric terminal on the roof.



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