

ARES TEC ErP

Floor-standing modular condensing boiler for thermal power stations from 150 to 7000 kW

- Heat outputs from 146,1 to 848,5 kW
- High efficiency and low pollutant emissions thanks to condensing technology
- Electronic and temperature fully automatic
- Possible indoor and outdoor installation (index protection IPX5D)
- Possible installation in cascade (up to 8 appliances)
- Reduced NOx emissions (< 31 ppm)
- Extremely noiseless
- Wide range of dedicated accessories
- Each heating units that compose ARES TEC ErP is equipped with: modulating radiant premix burner, two-stage modulating gas valve, electronic ignition with ionization, NTC temperature control probes, safety thermostats and sight glass








Model	Dimensions (H x W x D) mm	Empty appliance weight kg	Model	Dimensions (H x W x D) mm	Empty appliance weight kg
150	1150 x 764 x 770	175,0	440	1448 x 1087 x 946	361,0
200	1150 x 1032 x 770	225,0	550	1448 x 1355 x 946	449,0
250	1150 x 1032 x 770	260,0	660	1448 x 1355 x 946	519,0
300	1150 x 1300 x 770	305,0	770	1448 x 1623 x 946	610,0
350	1150 x 1300 x 770	345,0	900	1448 x 1623 x 946	739,0

Model	Code N.G. L.P.G.	Heat output kW		Efficiency at nominal heat output		Number of heating units	Modulating heat output range
		80-60 °C	50-30 °C	80-60 °C	50-30 °C		
ARES 150 TEC ErP	3.025682 3.025682GPL	146,1	150,0	97,4%	100,0%	3	8-100%
ARES 200 TEC ErP	3.025683 3.025683GPL	195,2	200,4	97,6%	100,2%	4	6-100%
ARES 250 TEC ErP	3.025684 3.025684GPL	244,5	251,2	97,8%	100,5%	5	5-100%
ARES 300 TEC ErP	3.025685 3.025685GPL	294,0	302,7	98,0%	100,9%	6	4-100%
ARES 350 TEC ErP	3.025686 3.025686GPL	341,8	354,6	98,2%	101,9%	7	3,5-100%
ARES 440 TEC ErP	3.025687 3.025687GPL	424,3	445,4	98,2%	103,1%	4	5-100%
ARES 550 TEC ErP	3.025688 3.025688GPL	530,3	557,8	98,2%	103,3%	5	4-100%
ARES 660 TEC ErP	3.025689 3.025689GPL	636,4	670,0	98,2%	103,4%	6	3-100%
ARES 770 TEC ErP	3.025690 3.025690GPL	742,5	783,2	98,2%	103,6%	7	3-100%
ARES 900 TEC ErP	3.025691 3.025691GPL	848,5	900,3	98,2%	104,2%	8	2,5-100%

THERMOREGULATION

ARES TEC ErP models include thermoregulation devices, as standard, designed with 2 levels. The first level manages the operation in terms of power modulation and in terms of temperature of the heating units. Furthermore, it is able to manage a direct heating circuit, a mixed one and a D.H.W. circuit with possible recirculation. The second level can control a modulating pump (0-10V) or a traditional one, send alarms remotely and monitor the system operation by means of a remote management system (Modbus). In case of failures or for urgent operations, it can activate ARES TEC ErP in an emergency mode by bypassing the thermoregulation and switching the boiler at a maximum power of 50%.

ARES TEC ErP are supplied as standard with external probe, mixed zone flow probe (to manage the mixed zone), the direct zone flow probe and the storage tank probe. For the operation of ARES TEC ErP in cascade or for the management of systems with a greater number of zones, the following optional kits are available.

Type		Code
Cascade regulator		3.023667
Zones expansion kit		3.023664
Zone manager		3.023665
Modulating room thermostat		3.023666
Flow probe kit		3.023700
Solar collector temperature probe kit		1.028812
Wall box kit for cascade regulator		3.023668
Interface kit for modem connection and tele-management*		3.023669

*Free downloading online software

FLUE SYSTEMS

In comparison to the standard versions, the ARES 150/200/250/300/350 TEC ErP models can be installed with a flue exhaust on the back, using appropriate optional kits.

Flue exhaust kit


Rear flue discharge kit for 150/200 models	3.023701
Rear flue discharge kit for 250/300/350 models	3.023674
Supporting kit for side flue discharge (all models)	3.023675

OPTION KITS

Hydraulic kit for installation with hydraulic separator for ARES Tec ErP

Safety kit complete with pump and hydraulic separator

The following kit includes a "Y" filter, a modulating pump class A, an hydraulic separator and following safety devices: pressure gauge with pipe damper and manometer cock, thermometer, inspection openings, stub pipe G1 1/4" for inserting safety valves, safety thermostat, pressure switch for minimum pressure with manual reset, additional stub pipe G1, safety pressure switch and differential flow switch. The kit does not include the tested expansion tank, safety valve (2 for 660/770/900 ErP versions), drain valve and manometer, since these need to be sized according to the characteristics of the system.

Type		Code
Safety kit complete with pump and hydraulic separator for 150 model		3.023645
Safety kit complete with pump and hydraulic separator for 200/250 models		3.023646
Safety kit complete with pump and hydraulic separator for 300/350 models		3.023647
Safety kit complete with pump and hydraulic separator for 440/550/660/770 models		3.023648
Safety kit complete with pump and hydraulic separator for 900 model		3.023649

Safety kit

To be mainly used when the pump is dimensioned by designer. The safety kit includes: pressure gauge with pipe damper and, manometer cock, thermometer, inspection openings, stub pipes G1 1/4" for inserting safety valves, safety thermostat, manual reset pressure switch for minimum pressure, additional stub pipe G1, safety pressure switch and differential flow switch. The kit does not include the tested expansion tank, safety valve, drain valve and manometer, since these need to be sized according to the characteristics of the system.

Safety kit with filter for 150/200/250/300/350 models	3.023656
Safety kit with filter for 440/550/660/770 models	3.023657
Safety kit with filter for 900 model	3.023658

Hydraulic separator kit

To be mainly used when the pump is independently dimensioned by the designer.

Hydraulic separator for 150/200/250/300/350 models	3.023659
Hydraulic separator for 440/550/660/770/900 models	3.023660

Outdoor casing kit

In case of outdoor installation of the safety kits and of the hydraulic separator with pump, appropriate casing kits are available to protect from the atmospheric agents.

Outdoor casing for safety kit and hydraulic separator for 150/200/250/300/350 models	3.023670
Outdoor casing for safety kit and hydraulic separator for 440/550/660/770/900 models	3.023671

OPTION KITS

Hydraulic kit for installation with plate heat exchanger for ARES Tec ErP

Safety kit complete with pump and plate heat exchanger

Ideal for system solutions where the primary circuit of the boiler needs to be completely separate from the one of the plant, like for example in presence of old-fashioned plants with high risks of dirt inside the circuit, disjunctions between open and closed vessel circuits or to allow the use of anti-freeze liquid in smaller quantities in case of installation of the boiler outdoors.

The kit includes a 316 L stainless steel plate heat exchanger, a modulating pump class A, a 8 litres expansion vessel (150/200/250/300/350 models) and 24 litres (440/550/660/770/900 models), an automatic air vent, delivery/return pipe, a drain valve, flanges/adapters, connectors, adjustable support components and the following safety devices: 1 safety valve 5 bar (2 valves for models 660/770/900 models), 3-way drain valve 1/2", manometer and dumper tube for manometer, thermometer with trap, minimum pressure switch with manual reset, safety pressure switch, inspection thermostat, inspection opening, coupling M/F 1/2", paddle flow switch and stub pipes adapters.

Type	Code
Safety kit complete with pump and plate heat exchanger for 150/200 models	3.023650
Safety kit complete with pump and plate heat exchanger for 250/300/350 models	3.023651
Safety kit complete with pump and plate heat exchanger for 440/550 models	3.023652
Safety kit complete with pump and plate heat exchanger for 660 model	3.023653
Safety kit complete with pump and plate heat exchanger for 770 model	3.023654
Safety kit complete with pump and plate heat exchanger for 900 model	3.023655

Outdoor casing kit

In case of outdoor installation of the safety kit with pump and plate heat exchanger, casing kits are available to assure protection from atmospheric agents.

Outdoor casing for safety kit and plate heat exchanger for 150/200/250/300/350 models	3.023672
Outdoor casing for safety kit and plate heat exchanger for 440/550/660/770/900 models	3.023663

Kit for condensate drain management

Condensate neutralizer kit up to 1500 kW	3.023662
Granulate kit for condensate neutralizer (25 kg)	3.023663