

# AURA HE

**R290**  
Refrigerant  
R290 | GWP=3

**Brazed plate**  
heat exchanger

**Semi-hermetic**  
piston compressor

**Axial fan**

**Cu/Al**  
condensing coils



9-1-1 PE ↔ 181-2-2 PE

## Air to water chillers for comfort applications

Standard efficiency



### Solution

B - Base  
I - Integrata

### Version

ST - Standard  
LN - Low Noise  
SL - Super Low Noise

### Equipment

AS - Standard equipment  
DS - Desuperheater  
HR - Total modulating Heat Recovery

**Cooling capacity 8,8 - 174 kW**

<b>Safety system</b>	To ensure high-safety-level the unit is equipped with an <b>ATEX certified gas detector</b> and an <b>EC centrifugal extraction fan</b> . The sensor, with external dedicated power supply and Modbus output signal, has an alarm threshold set at 10% of the lower flammable limit (LFL). The Propane alarm causes the immediate shutdown of the machine and the centrifugal extraction fan is switched on, which allows the ventilation of the compressor compartment and the dilution of the R290 concentration to values below the lower flammability limit.
<b>Structure</b>	Structure specifically designed and built to guarantee total resistance to atmospheric agents and corrosion. Basement and panels made of galvanized steel sheet, oven-painted with polyurethane powders. Frame made of anodized aluminium profiles, with aluminium alloy corner joints that guarantee excellent mechanical resistance and low weight. LN (Low Noise) version: the panels are internally lined with sound-absorbing material. SL (Super Low Noise) version: the panels are sandwich and insulated with rock wool.
<b>Compressor</b>	Reciprocating semi-hermetic type compressor equipped with: electronic control module and protection of the electric motor (installed inside the electrical panel); oil charge; oil level sight glass and oil crankcase heater; anti-vibration rubber supports; anti-vibration pipes (suction and discharge); suction and discharge valves. The compressor can be supplied with one or more RSH capacity control heads to guarantee an adaptation of the cooling capacity in case of thermal load's reduction: please see the list of accessories for further information.
<b>EC Fan</b>	Premium-Axial-Fans with bionic shaped blades and high-efficient EC (Electronically Commutated) external rotor motors, sealed in protection IP54 and thermal class THCL 155. The motor efficiency class complies with IE4.
<b>Air heat exchanger</b>	Finned coil made with copper pipes arranged on staggered rows, mechanically expanded inside a pack of aluminium fins offering a high exchange surface area.
<b>Water heat exchanger</b>	Brazed plate-type heat exchanger, stainless steel AISI 316 made, complete with water differential pressure switch, air vent valve and thermally insulated with closed-cell neoprene anti-condensate material. The heat exchanger design provides high thermal exchange and high performance results, furthermore it guarantees small dimensions and easy installation and maintenance.
<b>Electrical board</b>	Each unit is equipped with electric panel, built, wired and fully tested at the factory. Wiring numeration and optimized layout facilitate troubleshooting. The installed components are identified by nameplates to better identify the application and the type of action. Switchboard is made according to standards IEC 204-1/EN60204-1 and it is complete with the following main components: - Main isolator switch - Door interlock safety device - Contactor and protection for compressor and fans - Cabinet minimum protection rating IP54. To ensure higher level of security, the cabinet is outside the machine and positioned on one side of the unit. The propane sensor is equipped with separate power supply: this power supply must always be guaranteed in order to ensure the monitoring of any leakage.
<b>Control</b>	The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms with the possibility to connect to BMS.
<b>Refrigerant circuit</b>	Filter drier, moisture-liquid sight glass, electronic expansion valve, high & low pressure gauge, high and low pressure transducers, high pressure switch, safety high pressure valve (when required by EN 378-2016 standard).
<b>Water circuit (Integrata)</b>	<b>Base version:</b> as interface to the plant, includes the water fittings of the evaporator only. <b>Integrated version:</b> Water storage tank, water pressure gauge, safety valve, water discharge valve, centrifugal pump(s) suitable for glycol solutions up to 40%, manual by-pass valve, manual air venting valve. The pump control equipment is fitted inside the electrical board of the unit and the microprocessor control manages the pump starting, timing and all the safety devices of the whole system.

### MAIN ACCESSORIES

- Anti-vibration rubber/spring mounts
- Air heat exchanger protection panel or filter
- Air heat exchanger with various coatings treatment
- Low pressure switch
- Low pressure safety valve
- Double safety valve
- Overpressure valve / automatic by-pass
- Double water pump (stand-by) - Standard/ High pressure
- Open / Closed expansion vessel with automatic filling unit
- RSH Capacity Control head / Inverter driven compressor
- Advanced control c.pCo

» For the complete list of accessories please see pages 44-45-46-47

# AURA HE

## Technical data

AURA HE R290 range		9-1-1 PE	12-1-1 PE	19-1-1 PE	26-1-1 PE	31-1-1 PE	37-1-1 PE
Cooling capacity <sup>(1)</sup> (ST or LN version)	[kW]	8,8	13,2	18,2	25,2	30,8	36,6
Total power input <sup>(1)</sup>	[kW]	2,74	4,23	5,96	8,32	10,5	12,5
EER - Energy Efficiency Ratio	-	3,23	3,12	3,05	3,03	2,93	2,93
<b>Applications for seasonal efficiency for cooling according to Commission Regulation (EU) No 2016/2281 - Air conditioning applicator</b>							
SEER	[W/W]	4,333	4,111	4,180	4,397	4,140	4,107
$\eta_{s,c}$	[%]	170,3	161,4	164,2	172,9	162,6	161,3
Cooling capacity <sup>(1)</sup> (SL version)	[kW]	-	13,2	18,2	25,3	30,7	36,8
Total power input <sup>(1)</sup>	[kW]	-	4,14	5,86	8,09	10,3	12,2
EER - Energy Efficiency Ratio	-	-	3,19	3,11	3,13	2,98	3,02
<b>Applications for seasonal efficiency for cooling according to Commission Regulation (EU) No 2016/2281 - Air conditioning applicator</b>							
SEER	[W/W]	-	4,147	4,225	4,447	4,198	4,110
$\eta_{s,c}$	[%]	-	162,9	166,0	174,9	164,9	161,4

Technical data							
Refrigerant / GWP	-	R290 / 3					
Charge of refrigerant - Base unit	[kg]	1,2	2,1	2,6	3,6	3,8	4,0
Saved CO2 equivalent Ton (*)	[CO <sub>2</sub> Ton]	4,7	8	10,2	13,8	14,8	15,3
Number of refrigerant circuits	[n°]	1					
Compressor type / quantity	-	Semi-hermetic pistons / 1					
Steps of capacity for each compressor (std)	-	1 (50%)	1 (50%)	2 (75-50%)	2 (75-50%)	2 (75-50%)	2 (75-50%)
Condensing coils type	-	Cu/Al					
Fans type	-	Axial EC					
Fans quantity	[n°]	1			2		
Fans power input <sup>(1)</sup> (total)	[kW]	0,5	0,66	0,85	1,66	1,71	1,79
Total air flow	[m <sup>3</sup> /h]	5.900	10.500	11.550	22.900	23.100	21.400
Expansion valve type	-	Electronic					
Evaporator water flow <sup>(1)</sup>	[m <sup>3</sup> /h]	1,52	2,28	3,13	4,34	5,30	6,30
Evaporator pressure drop <sup>(1)</sup>	[kPa]	14,1	14,1	25,0	18,5	19,5	16,8

DESUPERHEATER (option) - A BP/ST/DS/EC/*S							
Heating capacity <sup>(2)</sup>	[kW]	0,89	1,35	1,92	2,19	3,42	3,96
Water flow	[m <sup>3</sup> /h]	0,15	0,24	0,33	0,38	0,59	0,69
Pressure drop (water side)	[kPa]	5,0	5,1	5,2	5,2	5,4	5,5

HEAT RECOVERY (option) - A BP/ST/HR/EC/*S							
Heating capacity <sup>(2)</sup>	[kW]	10,8	16,3	22,7	31,1	39,1	46,8
Water flow	[m <sup>3</sup> /h]	1,9	2,8	3,9	5,4	6,8	8,1
Pressure drop (water side)	[kPa]	18,2	19,6	22,6	28,7	27,9	33,2

Electrical data							
Power supply (main - gas detector)	-	400/3/50 - 230/1/50					
Maximum power input without pump	[kW]	4,1	6,1	9,5	13,2	15,2	17,7
Locked rotor current - LRA without pump	[A]	36,9	45,6	65,0	78,4	62,9	78,6
Maximum absorbed current - FLA without pump	[A]	7,4	10,9	15,2	22,7	25,4	32,5

HYDRONIC KIT (option)							
Buffer tank capacity	[L]	30	60	60	160	160	160
Pump type	-	Centrifugal					

Standard pump - 150 kPa useful head							
Motor Efficiency	-	-	-	-	-	-	-
Pump motor nominal power	[kW]	0,37	0,37	0,37	0,55	0,55	0,55
Pump motor nominal current	[A]	1	1,4	1,4	1,9	1,9	1,9

Standard pump - 250 kPa useful head							
Motor Efficiency	-	-	-	-	IE3	IE3	IE3
Pump motor nominal power	[kW]	0,55	0,55	0,55	0,9	0,9	1,5
Pump motor nominal current	[A]	2	2	2	2,5	2,5	4,1

Water connections							
Dimension (nominal external diameter)	[inch/DN]	1/2" (DN15)	1/2" (DN15)	1" (DN 25)	1" (DN 25)	1" (DN 25)	1" 1/4 (DN 32)

Noise levels <sup>(3)</sup>							
Total sound power (ST version)	[db(A)]	77	81	82	85	86	86
Total sound pressure (ST version) - at 1 m distance	[db(A)]	61	64	65	67	68	68
Total sound pressure (ST version) - at 10 m distance	[db(A)]	45	49	50	53	54	54
Total sound power (LN version)	[db(A)]	74	78	79	82	83	83
Total sound pressure (LN version) - at 1 m distance	[db(A)]	58	61	62	64	65	65
Total sound pressure (LN version) - at 10 m distance	[db(A)]	42	46	47	50	51	51
Total sound power (SL version)	[db(A)]	72	76	77	80	81	81
Total sound pressure (SL version) - at 1 m distance	[db(A)]	56	59	60	62	63	63
Total sound pressure (SL version) - at 10 m distance	[db(A)]	40	44	45	48	49	49

#### Reference conditions:

- (1) Condenser air intake temperature = 35 °C - Evaporator water temperature IN/OUT = 12/7 °C - Fluid: water - Condensing coil: Cu/Al or microchannel according to models  
(2) Plate heat exchanger water temp. IN/OUT = 40/45 °C - Condenser air intake temperature = 35 °C - Evaporator water temperature IN/OUT = 12/7 °C - Fluid: water - Condensing coil: Cu/Al or microchannel according to (1) - (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).  
(3) Sound power level in compliance with ISO 3744 - Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.  
(\*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROLIMAT unit with similar cooling capacity and HFC refrigerant

# AURA HE

## Technical data

AURA HE R290 range		45-1-1 PE	55-1-1 PE	64-1-1 PE	76-1-1 PE	62-2-2 PE	72-2-2 PE
Cooling capacity <sup>(1)</sup> (ST or LN version)	[kW]	44,9	53	64,4	75,2	60,2	69,7
Total power input <sup>(1)</sup>	[kW]	16,7	19	23,8	23,9	22,2	24,8
EER - Energy Efficiency Ratio	-	2,69	2,79	2,71	3,15	2,71	2,81
<b>Applications for seasonal efficiency for cooling according to Commission Regulation (EU) No 2016/2281 - Air conditioning applicator</b>							
SEER	[W/W]	4,105	4,100	4,107	4,269	4,101	4,105
$\eta_{s,c}$	[%]	161,2	161,0	161,3	167,7	161,1	161,2
Cooling capacity <sup>(1)</sup> (SL version)	[kW]	44,7	53	64,3	75,5	60,1	70
Total power input <sup>(1)</sup>	[kW]	15,8	17,9	22,8	23,6	21,2	24,5
EER - Energy Efficiency Ratio	-	2,83	2,96	2,82	3,20	2,83	2,86
<b>Applications for seasonal efficiency for cooling according to Commission Regulation (EU) No 2016/2281 - Air conditioning applicator</b>							
SEER	[W/W]	4,140	4,101	4,105	4,311	4,105	4,106
$\eta_{s,c}$	[%]	162,6	161,0	161,2	169,4	161,2	161,2

Technical data							
Refrigerant / GWP	-	R290					
Charge of refrigerant - Base unit	[kg]	5,3	5,9	7,2	10,1	7,6	8,2
Saved CO2 equivalent Ton (*)	[CO <sub>2</sub> Ton]	20,4	22,8	27,9	39,1	29,2	31,5
Number of refrigerant circuits	[n°]	1			2		
Compressor type / quantity	-	Semi-hermetic pistons / 1			Semi-hermetic pistons / 2		
Steps of capacity for each compressor (std)	-	2 (75-50%)	2 (75-50%)	2 (75-50%)	3 (83-67-50%)	2 (75-50%)	2 (75-50%)
Condensing coils type	-	Cu/Al					
Fans type	-	Axial EC					
Fans quantity	[n°]	2			3	2	3
Fans power input <sup>(1)</sup> (total)	[kW]	4,24	4,39	4,37	2,46	4,39	2,36
Total air flow	[m <sup>3</sup> /h]	39.800	37.000	36.900	35.800	36.600	37.800
Expansion valve type	-	Electronic					
Evaporator water flow <sup>(1)</sup>	[m <sup>3</sup> /h]	7,7	9,1	11,1	12,9	10,4	12,0
Evaporator pressure drop <sup>(1)</sup>	[kPa]	20,2	18,4	20,3	18	21,9	28,5

DESUPERHEATER (option) - A BP/ST/DS/EC/*S							
Heating capacity <sup>(2)</sup>	[kW]	4,32	5,38	7,51	7,98	7,11	9,39
Water flow	[m <sup>3</sup> /h]	0,75	0,93	1,31	1,39	1,24	1,63
Pressure drop (water side)	[kPa]	5,6	5,4	5,8	5,9	5,4	5,7

HEAT RECOVERY (option) - A BP/ST/HR/EC/*S							
Heating capacity <sup>(2)</sup>	[kW]	56,1	66,2	83,6	95,7	77,4	93,2
Water flow	[m <sup>3</sup> /h]	9,7	11,5	14,5	16,6	13,4	16,1
Pressure drop (water side)	[kPa]	40,8	26,3	39,9	39,4	32,9	29,3

Electrical data							
Power supply (main - gas detector)	-	400/3/50 - 230/1/50					
Maximum power input without pump	[kW]	22,5	26,4	31,4	35,3	32,0	34,3
Locked rotor current - LRA without pump	[A]	116,2	127,9	154,1	150,2	90,3	109,2
Maximum absorbed current - FLA without pump	[A]	39,8	46,5	52,4	59,6	52,8	63,1

HYDRONIC KIT (option)							
Buffer tank capacity	[L]	290	290	290	290	160	290
Pump type	-	Centrifugal					

Standard pump - 150 kPa useful head							
Motor Efficiency	-	IE3					
Pump motor nominal power	[kW]	0,9	0,9	1,1	1,1	1,1	1,1
Pump motor nominal current	[A]	2,5	2,5	3,3	3,3	3,3	3,3

Standard pump - 250 kPa useful head							
Motor Efficiency	-	IE3					
Pump motor nominal power	[kW]	1,5	1,5	2,2	2,2	2,2	2,2
Pump motor nominal current	[A]	4,1	4,1	4,7	4,7	4,7	4,7

Water connections							
Dimension (nominal external diameter)	[inch/DN]	1" 1/4 (DN 32)	1" 1/4 (DN 32)	1" 1/2 (DN 40)	1" 1/2 (DN 40)	1" 1/2 (DN 40)	1" 1/2 (DN 40)

Noise levels <sup>(3)</sup>							
Total sound power (ST version)	[db(A)]	84	85	87	88	85	86
Total sound pressure (ST version) - at 1 m distance	[db(A)]	66	67	69	69	67	67
Total sound pressure (ST version) - at 10 m distance	[db(A)]	52	53	55	56	53	54
Total sound power (LN version)	[db(A)]	81	82	84	85	82	83
Total sound pressure (LN version) - at 1 m distance	[db(A)]	63	64	66	66	64	64
Total sound pressure (LN version) - at 10 m distance	[db(A)]	49	50	52	53	50	51
Total sound power (SL version)	[db(A)]	79	80	82	83	80	81
Total sound pressure (SL version) - at 1 m distance	[db(A)]	61	62	64	64	62	62
Total sound pressure (SL version) - at 10 m distance	[db(A)]	47	48	50	51	48	49

#### Reference conditions:

- (1) Condenser air intake temperature = 35 °C - Evaporator water temperature IN/OUT = 12/7 °C - Fluid: water - Condensing coil: Cu/Al or microchannel according to models
  - (2) Plate heat exchanger water temp. IN/OUT = 40/45 °C - Condenser air intake temperature = 35 °C - Evaporator water temperature IN/OUT = 12/7 °C - Fluid: water - Condensing coil: Cu/Al or microchannel according to (1) - (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).
  - (3) Sound power level in compliance with ISO 3744 - Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.
- (\*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROLIMAT unit with similar cooling capacity and HFC refrigerant

# AURA HE

## Technical data

AURA HE R290 range		84-2-2 PE	127-2-2 PE	149-2-2 PE	181-2-2 PE
Cooling capacity <sup>(1)</sup> (ST or LN version)	[kW]	87,7	128	144	174
Total power input <sup>(1)</sup>	[kW]	32	45,1	50,2	59,8
EER - Energy Efficiency Ratio	-	2,74	2,84	2,87	2,91
<b>Applications for seasonal efficiency for cooling according to Commission Regulation (EU) No 2016/2281 - Air conditioning application</b>					
SEER	[W/W]	4,107	4,107	4,119	4,245
$\eta_{s,c}$	[%]	161,3	161,3	161,8	166,8
Cooling capacity <sup>(1)</sup> (SL version)	[kW]	87,5	127	142	173
Total power input <sup>(1)</sup>	[kW]	30,4	44,1	49,2	58,2
EER - Energy Efficiency Ratio	-	2,88	2,88	2,89	2,97
<b>Applications for seasonal efficiency for cooling according to Commission Regulation (EU) No 2016/2281 - Air conditioning application</b>					
SEER	[W/W]	4,121	4,165	4,134	4,28
$\eta_{s,c}$	[%]	161,8	163,6	162,4	168,2

Technical data					
Refrigerant / GWP	-	R290 / 3			
Charge of refrigerant - Base unit	[kg]	10,7	16,2	17,5	22,3
Saved CO2 equivalent Ton (*)	[CO <sub>2</sub> Ton]	41,2	62,4	67,3	85,9
Number of refrigerant circuits	[n°]	2			
Compressor type / quantity	-	Semi-hermetic pistons / 2			
Steps of capacity for each compressor (std)	-	2 (75-50%)	2 (75-50%)	3 (83-67-50%)	3 (83-67-50%)
Condensing coils type	-	Cu/Al			
Fans type	-	Axial EC			
Fans quantity	[n°]	3			4
Fans power input <sup>(1)</sup> (total)	[kW]	6,64	5,81	5,79	7,91
Total air flow	[m <sup>3</sup> /h]	54.000	66.600	66.500	86.300
Expansion valve type	-	Electronic			
Evaporator water flow <sup>(1)</sup>	[m <sup>3</sup> /h]	15,1	22,1	24,8	30,0
Evaporator pressure drop <sup>(1)</sup>	[kPa]	27,4	30,1	30,4	42,9

DESUPERHEATER (option) - A BP/ST/DS/EC/*S					
Heating capacity <sup>(2)</sup>	[kW]	9,24	15,9	18,2	19,3
Water flow	[m <sup>3</sup> /h]	1,60	2,74	3,17	3,36
Pressure drop (water side)	[kPa]	5,6	5,8	6,1	5,8

HEAT RECOVERY (option) - A BP/ST/HR/EC/*S					
Heating capacity <sup>(2)</sup>	[kW]	112	167	189	223
Water flow	[m <sup>3</sup> /h]	19,3	28,9	32,8	38,6
Pressure drop (water side)	[kPa]	40,4	46,4	47,7	54,7

Electrical data					
Power supply (main - gas detector)	-	400/3/50 - 230/1/50			
Maximum power input without pump	[kW]	41,9	59,7	72,9	85,6
Locked rotor current - LRA without pump	[A]	151,2	201,7	212,8	239,4
Maximum absorbed current - FLA without pump	[A]	74,8	100,0	122,2	141,2

HYDRONIC KIT (option)					
Buffer tank capacity	[L]	290	500	500	470
Pump type	-	Centrifugal			

Standard pump - 150 kPa useful head					
Motor Efficiency	-	IE3			
Pump motor nominal power	[kW]	1,1	2,2	2,2	2,2
Pump motor nominal current	[A]	3,3	4,7	4,7	4,7

Standard pump - 250 kPa useful head					
Motor Efficiency	-	IE3			
Pump motor nominal power	[kW]	2,2	3	4	4
Pump motor nominal current	[A]	4,7	6,4	8,7	8,7

Water connections					
Dimension (nominal external diameter)	[inch/DN]	2" (DN 50)	2" (DN 50)	2"1/2 (DN 65)	2"1/2 (DN 65)

Noise levels <sup>(3)</sup>					
Total sound power (ST version)	[db(A)]	88	89	89	91
Total sound pressure (ST version) - at 1 m distance	[db(A)]	69	70	70	71
Total sound pressure (ST version) - at 10 m distance	[db(A)]	56	57	57	59
Total sound power (LN version)	[db(A)]	85	86	86	88
Total sound pressure (LN version) - at 1 m distance	[db(A)]	66	67	67	68
Total sound pressure (LN version) - at 10 m distance	[db(A)]	53	54	54	56
Total sound power (SL version)	[db(A)]	83	84	84	86
Total sound pressure (SL version) - at 1 m distance	[db(A)]	64	65	65	66
Total sound pressure (SL version) - at 10 m distance	[db(A)]	51	52	52	54

#### Reference conditions:

(1) Condenser air intake temperature = 35 °C - Evaporator water temperature IN/OUT = 12/7 °C - Fluid: water - Condensing coil: Cu/Al or microchannel according to models

(2) Plate heat exchanger water temp. IN/OUT = 40/45 °C - Condenser air intake temperature = 35 °C - Evaporator water temperature IN/OUT = 12/7 °C - Fluid: water - Condensing coil: Cu/Al or

(1) - (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).

(3) Sound power level in compliance with ISO 3744 - Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power

(\*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant

# AURA HE

212-2-2 PV ↔ 335-2-2 PV



Refrigerant  
R290 | GWP=3



Brazen plate  
heat exchanger



Semi-hermetic  
piston compressor



Axial fan



Microchannel  
condensing coils



## Air to water chillers for comfort applications

Standard efficiency



### Solution

B - Base  
I - Integrata

### Version

ST - Standard  
LN - Low Noise  
SL - Super Low Noise

### Equipment

AS - Standard equipment  
DS - Desuperheater  
HR - Total modulating Heat Recovery

Cooling capacity 204 - 341 kW

### Safety system

To ensure high-safety-level the unit is equipped with an **ATEX certified gas detector** and an **EC centrifugal extraction fan**. The sensor, with external dedicated power supply and Modbus output signal, has an alarm threshold set at 10% of the lower flammable limit (LFL). The Propane alarm causes the immediate shutdown of the machine and the centrifugal extraction fan is switched on, which allows the ventilation of the compressor compartment and the dilution of the R290 concentration to values below the lower flammability limit.

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Structure specifically designed and built to guarantee total resistance to atmospheric agents and corrosion. Basement and panels made of galvanized steel sheet, oven-painted with polyurethane powders. Frame made of anodized aluminium profiles, with aluminium alloy corner joints that guarantee excellent mechanical resistance and low weight. LN (Low Noise) version: the panels are internally lined with sound-absorbing material. SL (Super Low Noise) version: the panels are sandwich and insulated with rock wool.

### Compressor

Reciprocating semi-hermetic type compressor equipped with: electronic control module and protection of the electric motor (installed inside the electrical panel); oil charge; oil level sight glass and oil crankcase heater; anti-vibration rubber supports; anti-vibration pipes (suction and discharge); suction and discharge valves. The compressor can be supplied with one or more RSH capacity control heads to guarantee an adaptation of the cooling capacity in case of thermal load's reduction: please see the list of accessories for further information.

### EC Fan

Premium-Axial-Fans with bionic shaped blades and high-efficient EC (Electronically Commutated) external rotor motors, sealed in protection IP54 and thermal class THCL 155. The motor efficiency class complies with IE4.

### Air heat exchanger

Microchannel technology increases the primary to secondary surface area ratio and reduces the tube's air shadow to provide maximum heat exchange through our condensers.

### Water heat exchanger

Brazen plate-type heat exchanger, stainless steel AISI 316 made, complete with water differential pressure switch, air vent valve and thermally insulated with closed-cell neoprene anti-condensate material. The heat exchanger design provides high thermal exchange and high performance results, furthermore it guarantees small dimensions and easy installation and maintenance.

### Electrical board

Each unit is equipped with electric panel, built, wired and fully tested at the factory. Wiring numeration and optimized layout facilitate troubleshooting. The installed components are identified by nameplates to better identify the application and the type of action. Switchboard is made according to standards IEC 204-1/EN60204-1 and it is complete with the following main components: - Main isolator switch - Door interlock safety device - Contactor and protection for compressor and fans - Cabinet minimum protection rating IP54.

To ensure higher level of security, the cabinet is outside the machine and positioned on one side of the unit. The propane sensor is equipped with separate power supply: this power supply must always be guaranteed in order to ensure the monitoring of any leakage.

### Control

The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms with the possibility to connect to BMS.

### Refrigerant circuit

Filter drier, moisture-liquid sight glass, electronic expansion valve, high & low pressure gauge, high and low pressure transducers, high pressure switch, safety high pressure valve (when required by EN 378-2016 standard).

### Water circuit

(Integrata)

**Base version:** as interface to the plant, includes the water fittings of the evaporator only.

**Integrated version:** Water storage tank, water pressure gauge, safety valve, water discharge valve, centrifugal pump(s) suitable for glycol solutions up to 40%, manual by-pass valve, manual air venting valve. The pump control equipment is fitted inside the electrical board of the unit and the microprocessor control manages the pump starting, timing and all the safety devices of the whole system.

### MAIN ACCESSORIES

- Anti-vibration rubber/spring mounts
- Air heat exchanger protection panel or filter
- Air heat exchanger with various coatings treatment
- Low pressure switch
- Low pressure safety valve
- Double safety valve
- Overpressure valve / automatic by-pass
- Double water pump (stand-by) - Standard/ High pressure
- Open / Closed expansion vessel with automatic filling unit
- RSH Capacity Control head / Inverter driven compressor
- Advanced control c.pCo

» For the complete list of accessories please see pages 44-45-46-47

# AURA HE

## Technical data

AURA HE R290 range		212-2-2 PV	240-2-2 PV	269-2-2 PV	291-2-2 PV	321-2-2 PV	335-2-2 PV
Cooling capacity <sup>(1)</sup> (ST or LN version)	[kW]	204	242	266	293	329	341
Total power input <sup>(1)</sup>	[kW]	70,5	80,2	89,7	101	109	118
EER - Energy Efficiency Ratio	-	2,89	3,02	2,97	2,90	3,02	2,89
<b>Applications for seasonal efficiency for cooling according to Commission Regulation (EU) No 2016/2281 - Air conditioning applicator</b>							
SEER	[W/W]	4,144	4,351	4,257	4,159	4,542	4,271
$\eta_{s,c}$	[%]	162,8	171,0	167,3	163,4	178,7	167,9
Cooling capacity <sup>(1)</sup> (SL version)	[kW]	202	240	264	291	326	338
Total power input <sup>(1)</sup>	[kW]	69,5	78,4	87,8	98,6	106	115
EER - Energy Efficiency Ratio	-	2,91	3,06	3,01	2,95	3,08	2,94
<b>Applications for seasonal efficiency for cooling according to Commission Regulation (EU) No 2016/2281 - Air conditioning applicator</b>							
SEER	[W/W]	4,156	4,391	4,288	4,187	4,564	4,287
$\eta_{s,c}$	[%]	163,3	172,6	168,5	164,5	179,6	168,5

Technical data							
Refrigerant / GWP	-	R290 / 3					
Charge of refrigerant - Base unit	[kg]	16,2	21,6	22,6	22,9	26,0	27,6
Saved CO2 equivalent Ton (*)	[CO <sub>2</sub> Ton]	62,4	83,2	87	88,1	100	106,4
Number of refrigerant circuits	[n°]	2					
Compressor type / quantity	-	Semi-hermetic pistons / 2					
Steps of capacity for each compressor (std)	-	3 (83-67-50%)		4 (87,5-75-62,5-50%)			
Condensing coils type	-	Microchannel					
Fans type	-	Axial EC					
Fans quantity	[n°]	4	6			8	
Fans power input <sup>(1)</sup> (total)	[kW]	7,67	11,6	11,6	11,5	15,4	15,4
Total air flow	[m <sup>3</sup> /h]	89.000	134.300	134.000	133.600	179.000	178.900
Expansion valve type	-	Electronic					
Evaporator water flow <sup>(1)</sup>	[m <sup>3</sup> /h]	35,0	41,6	45,7	50,4	56,6	58,6
Evaporator pressure drop <sup>(1)</sup>	[kPa]	42,6	26,9	26,1	31	32,4	34,5

DESUPERHEATER (option) - A BP/ST/DS/EC/*S							
Heating capacity <sup>(2)</sup>	[kW]	25,5	26,5	31,6	38,4	36,5	41,8
Water flow	[m <sup>3</sup> /h]	4,45	4,59	5,48	6,62	6,34	7,26
Pressure drop (water side)	[kPa]	6,1	6,0	6,2	1,5	6,4	6,8

HEAT RECOVERY (option) - A BP/ST/HR/EC/*S							
Heating capacity <sup>(2)</sup>	[kW]	264	302	337	377	411	433
Water flow	[m <sup>3</sup> /h]	45,7	52,4	58,5	65,3	71,3	75,1
Pressure drop (water side)	[kPa]	58,7	35,2	37,7	45,9	39,9	39,4

Electrical data							
Power supply (main - gas detector)	-	400/3/50 - 230/1/50					
Maximum power input without pump	[kW]	100,8	113,0	127,2	135,0	145,8	151,1
Locked rotor current - LRA without pump	[A]	282,4	376,1	454,6	522,1	563,3	566,6
Maximum absorbed current - FLA without pump	[A]	168,4	207,4	228,4	235,4	254,2	260,8

HYDRONIC KIT (option)							
Buffer tank capacity	[L]	290	290	290	290	290	290
Pump type	-	Centrifugal					

Standard pump - 150 kPa useful head							
Motor Efficiency	-	IE3					
Pump motor nominal power	[kW]	3	3	3	3	5,5	5,5
Pump motor nominal current	[A]	6,4	6,4	6,4	6,4	10,6	10,6

Standard pump - 250 kPa useful head							
Motor Efficiency	-	IE3					
Pump motor nominal power	[kW]	4	5,5	5,5	5,5	5,5	7,5
Pump motor nominal current	[A]	8,7	10,6	10,6	10,6	10,6	13,6

Water connections							
Dimension (nominal external diameter)	[inch/DN]	3" (DN 80)	3" (DN 80)	3" (DN 80)	3" (DN 80)	4" (DN 100)	4" (DN 100)

Noise levels <sup>(3)</sup>							
Total sound power (ST version)	[db(A)]	91	93	93	94	94	95
Total sound pressure (ST version) - at 1 m distance	[db(A)]	72	73	73	74	73	74
Total sound pressure (ST version) - at 10 m distance	[db(A)]	59	61	61	62	62	63
Total sound power (LN version)	[db(A)]	88	90	90	91	91	92
Total sound pressure (LN version) - at 1 m distance	[db(A)]	69	70	70	71	70	71
Total sound pressure (LN version) - at 10 m distance	[db(A)]	56	58	58	59	59	60
Total sound power (SL version)	[db(A)]	86	88	88	89	89	90
Total sound pressure (SL version) - at 1 m distance	[db(A)]	67	68	68	69	68	69
Total sound pressure (SL version) - at 10 m distance	[db(A)]	54	56	56	57	57	58

#### Reference conditions:

- (1) Condenser air intake temperature = 35 °C - Evaporator water temperature IN/OUT = 12/7 °C - Fluid: water - Condensing coil: Cu/Al or microchannel according to models
  - (2) Plate heat exchanger water temp. IN/OUT = 40/45 °C - Condenser air intake temperature = 35 °C - Evaporator water temperature IN/OUT = 12/7 °C - Fluid: water - Condensing coil: Cu/Al or microchannel according to (1) - (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).
  - (3) Sound power level in compliance with ISO 3744 - Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.
- (\*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROLIMAT unit with similar cooling capacity and HFC refrigerant



# AURA HE

## Dimensions and weights

AURA HE R290 range		84-2-2 PE	127-2-2 PE	149-2-2 PE	181-2-2 PE	212-2-2 PV
<b>DIMENSIONS AND WEIGHTS - Standard unit</b>						
Lenght	[mm]	3920	4200	4200	5500	3100
Width	[mm]	1025	1185	1185	1535	2345
Height (ST - LN)	[mm]	-	2320	2320	Contact EK	2465
Height (SL)	[mm]	2368	2380	2380	2410	2525
Shipping weight (A BP/ST/AS/EC/** version)	[kg]	980	1380	1470	1690	1860
Operating weight (A BP/ST/AS/EC/** version)	[kg]	988	1390	1480	1700	1875

<b>DIMENSIONS - Large unit</b>						
Lenght	[mm]	-	5000	5000	Contact EK	4450
Width	[mm]	-	1185	1185	Contact EK	2345
Height (ST - LN)	[mm]	-	2320	2320	Contact EK	2465
Height (SL)	[mm]	-	2380	2380	Contact EK	2525

<b>Unit dimensions with hydronic kit</b>						
Integrata LP 1-0 OO	-	Standard	Large	Large	Standard	Standard
Integrata LP 1-0 OO and HR equipment	-	Standard	Large	Large	Contact EK	Large
Integrata LP 1-1 OO	-	Standard	Large	Large	Standard	Large
Integrata LP 1-1 OO and HR equipment	-	Standard	Large	Large	Contact EK	Large
Integrata MP 1-0 OO	-	Standard	Large	Large	Standard	Standard
Integrata MP 1-0 OO and HR equipment	-	Standard	Large	Large	Contact EK	Large
Integrata MP 1-1 OO	-	Standard	Large	Large	Standard	Large
Integrata MP 1-1 OO and HR equipment	-	Standard	Large	Large	Contact EK	Large
Base-P LP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 OO	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 OO	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-T	-	Standard	Standard	Standard	Standard	Standard
Base-T and HR equipment	-	Standard	Large	Large	Contact EK	Large

AURA HE R290 range		240-2-2 PV	269-2-2 PV	291-2-2 PV	321-2-2 PV	335-2-2 PV
<b>DIMENSIONS AND WEIGHTS - Standard unit</b>						
Lenght	[mm]	4450	4450	4450	5700	5700
Width	[mm]	2345	2345	2345	2345	2345
Height (ST - LN)	[mm]	-	-	-	-	-
Height (SL)	[mm]	2525	2525	2525	2525	2525
Shipping weight (A BP/ST/AS/EC/** version)	[kg]	2495	2530	2560	2900	2900
Operating weight (A BP/ST/AS/EC/** version)	[kg]	2513	2548	2578	2920	2920

<b>DIMENSIONS - Large unit</b>						
Lenght	[mm]	-	-	-	-	-
Width	[mm]	-	-	-	-	-
Height (ST - LN)	[mm]	-	-	-	-	-
Height (SL)	[mm]	-	-	-	-	-

<b>Unit dimensions with hydronic kit</b>						
Integrata LP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard
Integrata LP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Integrata LP 1-1 OO	-	Standard	Standard	Standard	Standard	Standard
Integrata LP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Integrata MP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard
Integrata MP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Integrata MP 1-1 OO	-	Standard	Standard	Standard	Standard	Standard
Integrata MP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 OO	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 OO	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-T	-	Standard	Standard	Standard	Standard	Standard
Base-T and HR equipment	-	Standard	Standard	Standard	Standard	Standard



# AURA HEI

**R290**  
Refrigerant  
R290 | GWP=3

**Brazed plate**  
heat exchanger

**Semi-hermetic**  
piston compressor

**Axial fan**

**Cu/Al**  
condensing coils



11-1-1 PE ↔ 192-2-2 PE

**Air to water chillers for comfort applications**  
High efficiency with inverter



## Solution

B - Base  
I - Integrata

## Version

ST - Standard  
LN - Low Noise  
SL - Super Low Noise

## Equipment

AS - Standard equipment  
DS - Desuperheater  
HR - Total modulating Heat Recovery

**Cooling capacity 10,6 - 184 kW**

<b>Safety system</b>	To ensure high-safety-level the unit is equipped with an <b>ATEX certified gas detector</b> and an <b>EC centrifugal extraction fan</b> . The sensor, with external dedicated power supply and Modbus output signal, has an alarm threshold set at 10% of the lower flammable limit (LFL). The Propane alarm causes the immediate shutdown of the machine and the centrifugal extraction fan is switched on, which allows the ventilation of the compressor compartment and the dilution of the R290 concentration to values below the lower flammability limit.
<b>Structure</b>	Structure specifically designed and built to guarantee total resistance to atmospheric agents and corrosion. Basement and panels made of galvanized steel sheet, oven-painted with polyurethane powders. Frame made of anodized aluminium profiles, with aluminium alloy corner joints that guarantee excellent mechanical resistance and low weight. LN (Low Noise) version: the panels are internally lined with sound-absorbing material. SL (Super Low Noise) version: the panels are sandwich and insulated with rock wool.
<b>Compressor</b>	Reciprocating semi-hermetic type compressor equipped with: electronic control module and protection of the electric motor (installed inside the electrical panel); oil charge; oil level sight glass and oil crankcase heater; anti-vibration rubber supports; anti-vibration pipes (suction and discharge); suction and discharge valves. The compressor can be supplied with one or more RSH capacity control heads to guarantee an adaptation of the cooling capacity in case of thermal load's reduction: please see the list of accessories for further information.
<b>EC Fan</b>	Premium-Axial-Fans with bionic shaped blades and high-efficient EC (Electronically Commutated) external rotor motors, sealed in protection IP54 and thermal class THCL 155. The motor efficiency class complies with IE4.
<b>Air heat exchanger</b>	Finned coil made with copper pipes arranged on staggered rows, mechanically expanded inside a pack of aluminium fins offering a high exchange surface area.
<b>Water heat exchanger</b>	Brazed plate-type heat exchanger, stainless steel AISI 316 made, complete with water differential pressure switch, air vent valve and thermally insulated with closed-cell neoprene anti-condensate material. The heat exchanger design provides high thermal exchange and high performance results, furthermore it guarantees small dimensions and easy installation and maintenance.
<b>Electrical board</b>	Each unit is equipped with electric panel, built, wired and fully tested at the factory. Wiring numeration and optimized layout facilitate troubleshooting. The installed components are identified by nameplates to better identify the application and the type of action. Switchboard is made according to standards IEC 204-1/EN60204-1 and it is complete with the following main components: - Main isolator switch - Door interlock safety device - Contactor and protection for compressor and fans - Cabinet minimum protection rating IP54. To ensure higher level of security, the cabinet is outside the machine and positioned on one side of the unit. The propane sensor is equipped with separate power supply: this power supply must always be guaranteed in order to ensure the monitoring of any leakage.
<b>Control</b>	The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms with the possibility to connect to BMS.
<b>Refrigerant circuit</b>	Filter drier, moisture-liquid sight glass, electronic expansion valve, high & low pressure gauge, high and low pressure transducers, high pressure switch, safety high pressure valve (when required by EN 378-2016 standard).
<b>Water circuit (Integrata)</b>	<b>Base version:</b> as interface to the plant, includes the water fittings of the evaporator only. <b>Integrated version:</b> Water storage tank, water pressure gauge, safety valve, water discharge valve, centrifugal pump(s) suitable for glycol solutions up to 40%, manual by-pass valve, manual air venting valve. The pump control equipment is fitted inside the electrical board of the unit and the microprocessor control manages the pump starting, timing and all the safety devices of the whole system.

## MAIN ACCESSORIES

- Anti-vibration rubber/spring mounts
- Air heat exchanger protection panel or filter
- Air heat exchanger with various coatings treatment
- Low pressure switch
- Low pressure safety valve
- Double safety valve
- Overpressure valve / automatic by-pass
- Double water pump (stand-by) - Standard/ High pressure
- Open / Closed expansion vessel with automatic filling unit
- RSH Capacity Control head / Inverter driven compressor
- Advanced control c.pCo

» For the complete list of accessories please see pages 44-45-46-47

# AURA HEI

## Technical data

AURA HEI R290 range		11-1-1 PE	14-1-1 PE	24-1-1 PE	32-1-1 PE	41-1-1 PE
Cooling capacity <sup>(1)</sup> (ST or LN version)	[kW]	10,6	13	21,3	31	38,3
Total power input <sup>(1)</sup>	[kW]	3,52	4,21	7,52	10,8	15,3
EER - Energy Efficiency Ratio	-	3,01	3,09	2,83	2,87	2,50
Applications for seasonal efficiency for cooling according to Commission Regulation (EU) No 2016/2281 - Air conditioning applicator						
SEER	[W/W]	4,106	4,100	4,159	4,185	4,103
$\eta_{s,c}$	[%]	161,2	161,0	163,4	164,4	161,1
Cooling capacity <sup>(1)</sup> (SL version)	[kW]	-	13	21,4	31,1	38,2
Total power input <sup>(1)</sup>	[kW]	-	4,12	7,30	10,60	14,5
EER - Energy Efficiency Ratio	-	-	3,16	2,93	2,93	2,63
Applications for seasonal efficiency for cooling according to Commission Regulation (EU) No 2016/2281 - Air conditioning applicator						
SEER	[W/W]	-	4,127	4,189	4,246	4,115
$\eta_{s,c}$	[%]	-	162,1	164,6	166,8	161,6

Technical data						
Refrigerant / GWP	-	R290 / 3				
Charge of refrigerant - Base unit	[kg]	1,2	2,6	3,7	3,9	5,0
Saved CO2 equivalent Ton (*)	[CO <sub>2</sub> Ton]	4,5	10,2	14,3	15,1	19,3
Number of refrigerant circuits	[n°]	1				
Compressor type / quantity	-	Semi-hermetic pistons / 1				
Inverter nominal power (std)	[kW]	3	4	7,5	11	11
Condensing coils type	-	Cu/Al				
Fans type	-	Axial EC				
Fans quantity	[n°]	1		2		
Fans power input <sup>(1)</sup> (total)	[kW]	0,51	0,64	1,43	1,71	4,05
Total air flow	[m <sup>3</sup> /h]	5.900	10.400	21.700	23.000	39.100
Expansion valve type	-	Electronic				
Evaporator water flow <sup>(1)</sup>	[m <sup>3</sup> /h]	1,8	2,2	3,7	5,3	6,6
Evaporator pressure drop <sup>(1)</sup>	[kPa]	19,3	13,6	13,7	19,8	28,9

DESUPERHEATER (option) - A BP/ST/DS/EC/*I						
Heating capacity <sup>(2)</sup>	[kW]	1,3	1,37	2,2	3,55	4,46
Water flow	[m <sup>3</sup> /h]	0,22	0,24	0,38	0,62	0,77
Pressure drop (water side)	[kPa]	5,1	5,1	5,2	5,4	5,3

HEAT RECOVERY (option) - A BP/ST/HR/EC/*I						
Heating capacity <sup>(2)</sup>	[kW]	13,4	15,9	26,7	39,7	48,4
Water flow	[m <sup>3</sup> /h]	2,32	2,76	4,62	6,88	8,39
Pressure drop (water side)	[kPa]	13,8	18,7	17,1	24,8	31,4

Electrical data						
Power supply (main - gas detector)	-	400/3/50 - 230/1/50				
Maximum power input without pump	[kW]	4,2	5,8	10,4	13,2	19,1
Locked rotor current - LRA without pump	[A]	7,4	10,5	17,6	22,7	31,2
Maximum absorbed current - FLA without pump	[A]	7,4	10,5	17,6	22,7	31,2

HYDRONIC KIT (option)						
Buffer tank capacity	[L]	30	60	160	160	290
Pump type	-	Centrifugal				

Standard pump - 150 kPa useful head						
Motor Efficiency	-	-	-	-	-	-
Pump motor nominal power	[kW]	0,37	0,37	0,55	0,55	0,9
Pump motor nominal current	[A]	1,4	1,4	1,9	1,9	2,5

Standard pump - 250 kPa useful head						
Motor Efficiency	-	-	-	IE3		
Pump motor nominal power	[kW]	0,55	0,55	0,9	0,9	1,5
Pump motor nominal current	[A]	2	2	2,5	2,5	4,1

Water connections						
Dimension (nominal external diameter)	[inch/DN]	1/2" (DN15)	1" (DN 25)	1" (DN 25)	1" 1/4 (DN 32)	1" 1/4 (DN 32)

Noise levels <sup>(3)</sup>						
Total sound power (ST version)	[db(A)]	78	82	85	86	84
Total sound pressure (ST version) - at 1 m distance	[db(A)]	62	65	67	68	66
Total sound pressure (ST version) - at 10 m distance	[db(A)]	46	50	53	54	52
Total sound power (LN version)	[db(A)]	75	79	82	83	81
Total sound pressure (LN version) - at 1 m distance	[db(A)]	59	62	64	65	63
Total sound pressure (LN version) - at 10 m distance	[db(A)]	43	47	50	51	49
Total sound power (SL version)	[db(A)]	73	77	80	81	79
Total sound pressure (SL version) - at 1 m distance	[db(A)]	57	60	62	63	61
Total sound pressure (SL version) - at 10 m distance	[db(A)]	41	45	48	49	47

#### Reference conditions:

- (1) Condenser air intake temperature = 35 °C - Evaporator water temperature IN/OUT = 12/7 °C - Fluid: water - Condensing coil: Cu/Al or microchannel according to models  
 (2) Plate heat exchanger water temp. IN/OUT = 40/45 °C - Condenser air intake temperature = 35 °C - Evaporator water temperature IN/OUT = 12/7 °C - Fluid: water - Condensing coil: Cu/Al or (1) - (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).  
 (3) Sound power level in compliance with ISO 3744 - Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power  
 (\*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROLIMAT unit with similar cooling capacity and HFC refrigerant

# AURA HEI

## Technical data

AURA HEI R290 range		49-1-1 PE	56-1-1 PE	67-1-1 PE	64-2-2 PE	78-2-2 PE
Cooling capacity <sup>(1)</sup> (ST or LN version)	[kW]	45,6	55,7	64,3	60	74,3
Total power input <sup>(1)</sup>	[kW]	17,7	20,9	23,8	20,9	26,2
EER - Energy Efficiency Ratio	-	2,58	2,67	2,70	2,87	2,84
<b>Applications for seasonal efficiency for cooling according to Commission Regulation (EU) No 2016/2281 - Air conditioning applicator</b>						
SEER	[W/W]	4,1	4,101	4,109	4,271	4,124
$\eta_{s,c}$	[%]	161,0	161,0	161,3	167,8	162,0
Cooling capacity <sup>(1)</sup> (SL version)	[kW]	45,5	55,6	64,2	60,1	74,5
Total power input <sup>(1)</sup>	[kW]	16,7	19,8	22,8	20,6	25,8
EER - Energy Efficiency Ratio	-	2,72	2,81	2,82	2,92	2,89
<b>Applications for seasonal efficiency for cooling according to Commission Regulation (EU) No 2016/2281 - Air conditioning applicator</b>						
SEER	[W/W]	4,1	4,11	4,132	4,322	4,171
$\eta_{s,c}$	[%]	161,0	161,4	162,3	169,9	163,8

Technical data						
Refrigerant	-	R290 / 3				
Charge of refrigerant - Base unit	[kg]	6,0	7,4	7,5	8,2	10,1
Saved CO2 equivalent Ton (*)	[CO <sub>2</sub> Ton]	23	28,3	29	31,4	39
Independent gas circuits	[n°]	1		2		
Compressors type	-	Semi-hermetic pistons / 1			Semi-hermetic pistons / 2	
Inverter nominal power (std)	[kW]	15	18,5	22	11	11
Condensing coils type	-	Cu/Al				
Fans type	-	Axial EC				
Fans quantity	[n°]	2			3	
Fans power input <sup>(1)</sup> (total)	[kW]	4,24	4,38	4,37	2,36	2,46
Total air flow	[m <sup>3</sup> /h]	39.800	37.000	36.900	37.900	35.700
Expansion valve type	-	Electronic				
Evaporator water flow <sup>(1)</sup>	[m <sup>3</sup> /h]	7,8	9,6	11,1	10,3	12,8
Evaporator pressure drop <sup>(1)</sup>	[kPa]	14	15,6	16,3	21,8	20,3

DESUPERHEATER (option) - A BP/ST/DS/EC/*S						
Heating capacity <sup>(2)</sup>	[kW]	5,43	6,49	7,68	7,56	10,60
Water flow	[m <sup>3</sup> /h]	0,94	1,12	1,34	1,32	1,84
Pressure drop (water side)	[kPa]	5,4	5,6	5,8	5,5	5,4

HEAT RECOVERY (option) - A BP/ST/HR/EC/*S						
Heating capacity <sup>(2)</sup>	[kW]	58,4	71,1	83,4	78,5	97,7
Water flow	[m <sup>3</sup> /h]	10,10	12,3	14,5	13,6	16,9
Pressure drop (water side)	[kPa]	21,1	29,9	25,0	27,8	31,9

Electrical data						
Power supply (main - gas detector)	-	400/3/50 - 230/1/50				
Maximum power input without pump	[kW]	21,8	22,5	31,0	25,2	29,2
Locked rotor current - LRA without pump	[A]	38,3	39,8	51,6	43,5	48,9
Maximum absorbed current - FLA without pump	[A]	38,3	39,8	51,6	43,5	48,9

HYDRONIC KIT (option)						
Buffer tank capacity	[L]	290	290	290	290	290
Pump type	-	Centrifugal				

Standard pump - 150 kPa useful head						
Motor Efficiency	-	IE3				
Pump motor nominal power	[kW]	0,9	0,9	1,1	1,1	1,1
Pump motor nominal current	[A]	2,5	2,5	3,3	3,3	3,3

Standard pump - 250 kPa useful head						
Motor Efficiency	-	IE3				
Pump motor nominal power	[kW]	1,5	1,5	2,2	2,2	2,2
Pump motor nominal current	[A]	4,1	4,1	4,7	4,7	4,7

Water connections						
Dimension (nominal external diameter)	[inch/DN]	1" 1/4 (DN 32)	1" 1/2 (DN 40)	1" 1/2 (DN 40)	1" 1/2 (DN 40)	2" (DN 50)

Noise levels <sup>(3)</sup>						
Total sound power (ST version)	[db(A)]	84	85	85	86	87
Total sound pressure (ST version) - at 1 m distance	[db(A)]	66	67	67	67	68
Total sound pressure (ST version) - at 10 m distance	[db(A)]	52	53	53	54	55
Total sound power (LN version)	[db(A)]	81	82	82	83	84
Total sound pressure (LN version) - at 1 m distance	[db(A)]	63	64	64	64	65
Total sound pressure (LN version) - at 10 m distance	[db(A)]	49	50	50	51	52
Total sound power (SL version)	[db(A)]	79	80	80	81	82
Total sound pressure (SL version) - at 1 m distance	[db(A)]	61	62	62	62	63
Total sound pressure (SL version) - at 10 m distance	[db(A)]	47	48	48	49	50

#### Reference conditions:

- (1) Condenser air intake temperature = 35 °C - Evaporator water temperature IN/OUT = 12/7 °C - Fluid: water - Condensing coil: Cu/Al or microchannel according to models  
 (2) Plate heat exchanger water temp. IN/OUT = 40/45 °C - Condenser air intake temperature = 35 °C - Evaporator water temperature IN/OUT = 12/7 °C - Fluid: water - Condensing coil: Cu/Al or (1) - (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).  
 (3) Sound power level in compliance with ISO 3744 - Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power  
 (\*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROLIMAT unit with similar cooling capacity and HFC refrigerant

# AURA HEI

## Technical data

AURA HEI R290 range		111-2-2 PE	133-2-2 PE	165-2-2 PE	192-2-2 PE
Cooling capacity <sup>(1)</sup> (ST or LN version)	[kW]	111	127	162	184
Total power input <sup>(1)</sup>	[kW]	39,1	45,2	57,7	64,7
EER - Energy Efficiency Ratio	-	2,84	2,81	2,81	2,84
<b>Applications for seasonal efficiency for cooling according to Commission Regulation (EU) No 2016/2281 - Air conditioning applicator</b>					
SEER	[W/W]	4,181	4,216	4,167	4,232
η <sub>s,c</sub>	[%]	164,3	165,6	163,7	166,3
Cooling capacity <sup>(1)</sup> (SL version)	[kW]	110	126	162	183
Total power input <sup>(1)</sup>	[kW]	38,0	44,2	56,5	63,1
EER - Energy Efficiency Ratio	-	2,89	2,85	2,87	2,90
<b>Applications for seasonal efficiency for cooling according to Commission Regulation (EU) No 2016/2281 - Air conditioning applicator</b>					
SEER	[W/W]	4,204	4,272	4,199	4,263
η <sub>s,c</sub>	[%]	165,2	167,9	165,0	167,5

Technical data					
Refrigerant / GWP	-	R290 / 3			
Charge of refrigerant - Base unit	[kg]	16,6	16,9	22,5	23,7
Saved CO2 equivalent Ton (*)	[CO <sub>2</sub> Ton]	63,7	65	86,7	91,1
Number of refrigerant circuits	[n°]	2			
Compressor type / quantity	-	Semi-hermetic pistons / 2			
Inverter nominal power (std)	[kW]	18,5	22	30	30
Condensing coils type	-	Cu/Al			
Fans type	-	Axial EC			
Fans quantity	[n°]	3		4	
Fans power input <sup>(1)</sup> (total)	[kW]	5,83	5,81	7,92	7,89
Total air flow	[m <sup>3</sup> /h]	66.800	66.600	86.500	86.200
Expansion valve type	-	Electronic			
Evaporator water flow <sup>(1)</sup>	[m <sup>3</sup> /h]	19,0	21,9	27,9	31,6
Evaporator pressure drop <sup>(1)</sup>	[kPa]	23,1	24,5	32,2	35,5

DESUPERHEATER (option) - A BP/ST/DS/EC/*I					
Heating capacity <sup>(2)</sup>	[kW]	13,5	16,4	19,3	23,4
Water flow	[m <sup>3</sup> /h]	2,33	2,82	3,36	4,02
Pressure drop (water side)	[kPa]	5,6	5,9	5,8	5,9

HEAT RECOVERY (option) - A BP/ST/HR/EC/*I					
Heating capacity <sup>(2)</sup>	[kW]	142	166	210	237
Water flow	[m <sup>3</sup> /h]	24,60	28,80	36,40	41,10
Pressure drop (water side)	[kPa]	34,7	37,8	43,3	48,5

Electrical data					
Power supply (main - gas detector)	-	400/3/50 - 230/1/50			
Maximum power input without pump	[kW]	41,9	58,9	61,8	76,2
Locked rotor current - LRA without pump	[A]	74,8	98,4	104,8	127,0
Maximum absorbed current - FLA without pump	[A]	74,8	98,4	104,8	127,0

HYDRONIC KIT (option)					
Buffer tank capacity	[L]	500	500	470	470
Pump type	-	Centrifugal			

Standard pump - 150 kPa useful head					
Motor Efficiency	-	IE3			
Pump motor nominal power	[kW]	2,2	2,2	2,2	3
Pump motor nominal current	[A]	4,7	4,7	4,7	6,4

Standard pump - 250 kPa useful head					
Motor Efficiency	-	IE3			
Pump motor nominal power	[kW]	3	3	4	4
Pump motor nominal current	[A]	6,4	6,4	8,7	8,7

Water connections					
Dimension (nominal external diameter)	[inch/DN]	2" (DN 50)	2"1/2 (DN 65)	2"1/2 (DN 65)	2"1/2 (DN 65)

Noise levels <sup>(3)</sup>					
Total sound power (ST version)	[db(A)]	86	86	89	89
Total sound pressure (ST version) - at 1 m distance	[db(A)]	67	67	69	69
Total sound pressure (ST version) - at 10 m distance	[db(A)]	54	54	57	57
Total sound power (LN version)	[db(A)]	83	83	86	86
Total sound pressure (LN version) - at 1 m distance	[db(A)]	64	64	66	66
Total sound pressure (LN version) - at 10 m distance	[db(A)]	51	51	54	54
Total sound power (SL version)	[db(A)]	81	81	84	84
Total sound pressure (SL version) - at 1 m distance	[db(A)]	62	62	64	64
Total sound pressure (SL version) - at 10 m distance	[db(A)]	49	49	52	52

#### Reference conditions:

- (1) Condenser air intake temperature = 25 °C - Evaporator water temperature IN/OUT = 20/15 °C - Fluid: water - Condensing coil: Cu/Al or microchannel according to models  
 (2) Plate heat exchanger water temp. IN/OUT = 40/45 °C - Condenser air intake temperature = 35 °C - Evaporator water temperature IN/OUT = 20/15 °C - Fluid: ethylene glycol - Condensing coil: Cu/Al  
 (1) - (2) The declared cooling capacity are not taking into account the pump motor power input (where provided).  
 (3) Sound power level in compliance with ISO 3744 - Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power  
 (\*) CO2 equivalent tons saved to the Environment compared to the choice of an EUROLIMAT unit with similar cooling capacity and HFC refrigerant

# AURA HEI



Refrigerant  
R290 | GWP=3



Brazen plate  
heat exchanger



Semi-hermetic  
piston compressor



Axial fan



Microchannel  
condensing coils



195-2-2 PV ↔ 398-2-2 PV

## Air to water chillers for comfort applications

High efficiency with inverter



### Solution

B - Base  
I - Integrata

### Version

ST - Standard  
LN - Low Noise  
SL - Super Low Noise

### Equipment

AS - Standard equipment  
DS - Desuperheater  
HR - Total modulating Heat Recovery

**Cooling capacity 185 - 396 kW**

### Safety system

To ensure high-safety-level the unit is equipped with an **ATEX certified gas detector** and an **EC centrifugal extraction fan**. The sensor, with external dedicated power supply and Modbus output signal, has an alarm threshold set at 10% of the lower flammable limit (LFL). The Propane alarm causes the immediate shutdown of the machine and the centrifugal extraction fan is switched on, which allows the ventilation of the compressor compartment and the dilution of the R290 concentration to values below the lower flammability limit.

### Structure

Structure specifically designed and built to guarantee total resistance to atmospheric agents and corrosion. Basement and panels made of galvanized steel sheet, oven-painted with polyurethane powders. Frame made of anodized aluminium profiles, with aluminium alloy corner joints that guarantee excellent mechanical resistance and low weight. LN (Low Noise) version: the panels are internally lined with sound-absorbing material. SL (Super Low Noise) version: the panels are sandwich and insulated with rock wool.

### Compressor

Reciprocating semi-hermetic type compressor equipped with: electronic control module and protection of the electric motor (installed inside the electrical panel); oil charge; oil level sight glass and oil crankcase heater; anti-vibration rubber supports; anti-vibration pipes (suction and discharge); suction and discharge valves. The compressor can be supplied with one or more RSH capacity control heads to guarantee an adaptation of the cooling capacity in case of thermal load's reduction: please see the list of accessories for further information.

### EC Fan

Premium-Axial-Fans with bionic shaped blades and high-efficient EC (Electronically Commutated) external rotor motors, sealed in protection IP54 and thermal class THCL 155. The motor efficiency class complies with IE4.

### Air heat exchanger

Microchannel technology increases the primary to secondary surface area ratio and reduces the tube's air shadow to provide maximum heat exchange through our condensers.

### Water heat exchanger

Brazen plate-type heat exchanger, stainless steel AISI 316 made, complete with water differential pressure switch, air vent valve and thermally insulated with closed-cell neoprene anti-condensate material. The heat exchanger design provides high thermal exchange and high performance results, furthermore it guarantees small dimensions and easy installation and maintenance.

### Electrical board

Each unit is equipped with electric panel, built, wired and fully tested at the factory. Wiring numeration and optimized layout facilitate troubleshooting. The installed components are identified by nameplates to better identify the application and the type of action. Switchboard is made according to standards IEC 204-1/EN60204-1 and it is complete with the following main components: - Main isolator switch - Door interlock safety device - Contactor and protection for compressor and fans - Cabinet minimum protection rating IP54.

To ensure higher level of security, the cabinet is outside the machine and positioned on one side of the unit. The propane sensor is equipped with separate power supply: this power supply must always be guaranteed in order to ensure the monitoring of any leakage.

### Control

The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms with the possibility to connect to BMS.

### Refrigerant circuit

Filter drier, moisture-liquid sight glass, electronic expansion valve, high & low pressure gauge, high and low pressure transducers, high pressure switch, safety high pressure valve (when required by EN 378-2016 standard).

### Water circuit

(Integrata)

**Base version:** as interface to the plant, includes the water fittings of the evaporator only.

**Integrated version:** Water storage tank, water pressure gauge, safety valve, water discharge valve, centrifugal pump(s) suitable for glycol solutions up to 40%, manual by-pass valve, manual air venting valve. The pump control equipment is fitted inside the electrical board of the unit and the microprocessor control manages the pump starting, timing and all the safety devices of the whole system.

### MAIN ACCESSORIES

- Anti-vibration rubber/spring mounts
- Air heat exchanger protection panel or filter
- Air heat exchanger with various coatings treatment
- Low pressure switch
- Low pressure safety valve
- Double safety valve
- Overpressure valve / automatic by-pass
- Double water pump (stand-by) - Standard/ High pressure
- Open / Closed expansion vessel with automatic filling unit
- RSH Capacity Control head / Inverter driven compressor
- Advanced control c.pCo

» For the complete list of accessories please see pages 44-45-46-47

# AURA HEI

## Technical data

AURA HEI R290 range		195-2-2 PV	228-2-2 PV	278-2-2 PV	318-2-2 PV	348-2-2 PV	380-2-2 PV	398-2-2 PV
Cooling capacity <sup>(1)</sup> (ST or LN version)	[kW]	185	214	264	296	325	371	396
Total power input <sup>(1)</sup>	[kW]	63,9	77,7	91,9	103	115	130	137
EER - Energy Efficiency Ratio	-	2,90	2,75	2,87	2,87	2,83	2,85	2,89
Applications for seasonal efficiency for cooling according to Commission Regulation (EU) No 2016/2281 - Air conditioning applicator								
SEER	[W/W]	4,270	4,100	4,389	4,155	4,105	4,114	4,202
η <sub>s,c</sub>	[%]	167,8	161,0	172,5	163,2	161,2	161,6	165,1
Cooling capacity <sup>(1)</sup> (SL version)	[kW]	184	213	264	295	322	368	394
Total power input <sup>(1)</sup>	[kW]	62,8	76,7	89,3	100	112	127	133
EER - Energy Efficiency Ratio	-	2,93	2,78	2,96	2,95	2,88	2,90	2,96
Applications for seasonal efficiency for cooling according to Commission Regulation (EU) No 2016/2281 - Air conditioning applicator								
SEER	[W/W]	4,280	4,103	4,404	4,183	4,106	4,138	4,221
η <sub>s,c</sub>	[%]	168,2	161,1	173,2	164,3	161,2	162,5	165,8

Technical data								
Refrigerant / GWP	-	R290 / 3						
Charge of refrigerant - Base unit	[kg]	16,0	17,3	24,2	25,0	27,2	30,9	31,9
Saved CO <sub>2</sub> equivalent Ton (*)	[CO <sub>2</sub> Ton]	61,6	66,6	93,2	96,4	104,8	119	122,7
Number of refrigerant circuits	[n°]	2						
Compressor type / quantity	-	Semi-hermetic pistons / 2						
Inverter nominal power (std)	[kW]	30	37	55	55	75	75	90
Condensing coils type	-	Microchannel						
Fans type	-	Axial EC						
Fans quantity	[n°]	4		8			10	
Fans power input <sup>(1)</sup> (total)	[kW]	7,69	7,66	14,5	15,5	15,4	19,3	19,3
Total air flow	[m <sup>3</sup> /h]	89.200	88.800	174.600	179.400	179.000	224.200	223.900
Expansion valve type	-	Electronic						
Evaporator water flow <sup>(1)</sup>	[m <sup>3</sup> /h]	31,9	36,9	45,5	51,0	55,9	63,8	68,1
Evaporator pressure drop <sup>(1)</sup>	[kPa]	36	28,2	31,6	31,7	37,2	40,1	39,5

DESUPERHEATER (option) - A BP/ST/DS/EC/*I								
Heating capacity <sup>(2)</sup>	[kW]	22,7	31,1	29,4	35,2	41,0	42,9	45,0
Water flow	[m <sup>3</sup> /h]	3,94	5,38	5,10	6,11	7,10	7,45	7,84
Pressure drop (water side)	[kPa]	5,9	6,3	6,1	6,3	6,7	6,9	7,1

HEAT RECOVERY (option) - A BP/ST/HR/EC/*I								
Heating capacity <sup>(2)</sup>	[kW]	237	284	335	372	413	465	498
Water flow	[m <sup>3</sup> /h]	41,1	49,3	58,0	64,5	71,7	80,6	86,4
Pressure drop (water side)	[kPa]	48,5	31,6	37,1	38,1	36,2	40,8	41,8

Electrical data								
Power supply (main - gas detector)	-	400/3/50 - 230/1/50						
Maximum power input without pump	[kW]	76,2	85,6	110,0	127,5	138,1	146,8	150,8
Locked rotor current - LRA without pump	[A]	127,0	141,2	187,6	217,0	238,0	254,6	263,8
Maximum absorbed current - FLA without pump	[A]	127,0	141,2	187,6	217,0	238,0	254,6	263,8

HYDRONIC KIT (option)								
Buffer tank capacity	[L]	290	290	290	290	290	470	470
Pump type	-	Centrifugal						

Standard pump - 150 kPa useful head								
Motor Efficiency	-	IE3						
Pump motor nominal power	[kW]	3	3	3	5,5	5,5	5,5	5,5
Pump motor nominal current	[A]	6,4	6,4	6,4	10,6	10,6	10,6	10,6

Standard pump - 250 kPa useful head								
Motor Efficiency	-	IE3						
Pump motor nominal power	[kW]	4	5,5	5,5	5,5	7,5	7,5	7,5
Pump motor nominal current	[A]	8,7	10,6	10,6	10,6	13,6	13,6	13,6

Water connections								
Dimension (nominal external diameter)	[inch/DN]	3" (DN 80)	3" (DN 80)	3" (DN 80)	4" (DN 100)	4" (DN 100)	4" (DN 100)	4" (DN 100)

Noise levels <sup>(3)</sup>								
Total sound power (ST version)	[db(A)]	89	91	94	94	94	95	96
Total sound pressure (ST version) - at 1 m distance	[db(A)]	70	72	73	73	73	74	75
Total sound pressure (ST version) - at 10 m distance	[db(A)]	57	59	62	62	62	62	63
Total sound power (LN version)	[db(A)]	86	88	91	91	91	92	93
Total sound pressure (LN version) - at 1 m distance	[db(A)]	67	69	70	70	70	71	72
Total sound pressure (LN version) - at 10 m distance	[db(A)]	54	56	59	59	59	59	60
Total sound power (SL version)	[db(A)]	84	86	89	89	89	90	91
Total sound pressure (SL version) - at 1 m distance	[db(A)]	65	67	68	68	68	69	70
Total sound pressure (SL version) - at 10 m distance	[db(A)]	52	54	57	57	57	57	58

#### Reference conditions:

- (1) Condenser air intake temperature = 25 °C - Evaporator water temperature IN/OUT = 20/15 °C - Fluid: water - Condensing coil: Cu/Al or microchannel according to models
  - (2) Plate heat exchanger water temp. IN/OUT = 40/45 °C - Condenser air intake temperature = 35 °C - Evaporator water temperature IN/OUT = 20/15 °C - Fluid: ethylene glycol - Condensing coil: Cu/Al or microchannel according to models
  - (3) Sound power level in compliance with ISO 3744 - Sound pressure level (average) at 10 meter distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.
- (\*) CO<sub>2</sub> equivalent tons saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant



# AURA HEI

## Dimensions and weights

AURA HEI R290 range		111-2-2 PE	165-2-2 PE	192-2-2 PE	195-2-2 PV	228-2-2 PV
<b>DIMENSIONS AND WEIGHTS - Standard unit</b>						
Lenght	[mm]	4200	5500	5500	3100	3100
Width	[mm]	1185	1535	1535	2345	2345
Height (ST - LN)	[mm]	2320	2350	2350	2465	2465
Height (SL)	[mm]	2380	2410	2410	2525	2525
Shipping weight (A BP/ST/AS/EC/*I version)	[kg]	1370	1660	1700	1854	1882
Operating weight (A BP/ST/AS/EC/*I version)	[kg]	1380	1670	1710	1869	1897

<b>DIMENSIONS - Large unit</b>						
Lenght	[mm]	5000	Contact EK	Contact EK	4450	4450
Width	[mm]	1185	Contact EK	Contact EK	2345	2345
Height (ST - LN)	[mm]	2320	Contact EK	Contact EK	2465	2465
Height (SL)	[mm]	2380	Contact EK	Contact EK	2525	2525

<b>Unit dimensions with hydronic kit</b>						
Integrata LP 1-0 OO	-	Large	Standard	Standard	Standard	Standard
Integrata LP 1-0 OO and HR equipment	-	Large	Contact EK	Contact EK	Large	Large
Integrata LP 1-1 OO	-	Large	Standard	Standard	Large	Large
Integrata LP 1-1 OO and HR equipment	-	Large	Contact EK	Contact EK	Large	Large
Integrata MP 1-0 OO	-	Large	Standard	Standard	Standard	Standard
Integrata MP 1-0 OO and HR equipment	-	Large	Contact EK	Contact EK	Large	Large
Integrata MP 1-1 OO	-	Large	Standard	Standard	Large	Large
Integrata MP 1-1 OO and HR equipment	-	Large	Contact EK	Contact EK	Large	Large
Base-P LP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 OO	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 OO	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-T	-	Standard	Standard	Standard	Standard	Standard
Base-T and HR equipment	-	Large	Contact EK	Contact EK	Large	Large

AURA HEI R290 range		278-2-2 PV	318-2-2 PV	348-2-2 PV	380-2-2 PV	398-2-2 PV
<b>DIMENSIONS AND WEIGHTS - Standard unit</b>						
Lenght	[mm]	5700	5700	5700	6950	6950
Width	[mm]	2345	2345	2345	2345	2345
Height (ST - LN)	[mm]	2465	2465	2465	2465	2465
Height (SL)	[mm]	2525	2525	2525	2525	2525
Shipping weight (A BP/ST/AS/EC/*I version)	[kg]	2815	2852	2878	3406	3421
Operating weight (A BP/ST/AS/EC/*I version)	[kg]	2835	2872	2898	3429	3444

<b>DIMENSIONS - Large unit</b>						
Lenght	[mm]	-	-	-	-	-
Width	[mm]	-	-	-	-	-
Height (ST - LN)	[mm]	-	-	-	-	-
Height (SL)	[mm]	-	-	-	-	-

<b>Unit dimensions with hydronic kit</b>						
Integrata LP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard
Integrata LP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Integrata LP 1-1 OO	-	Standard	Standard	Standard	Standard	Standard
Integrata LP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Integrata MP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard
Integrata MP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Integrata MP 1-1 OO	-	Standard	Standard	Standard	Standard	Standard
Integrata MP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 OO	-	Standard	Standard	Standard	Standard	Standard
Base-P LP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-0 OO	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-0 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 OO	-	Standard	Standard	Standard	Standard	Standard
Base-P MP 1-1 OO and HR equipment	-	Standard	Standard	Standard	Standard	Standard
Base-T	-	Standard	Standard	Standard	Standard	Standard
Base-T and HR equipment	-	Standard	Standard	Standard	Standard	Standard