

i-290 0240/0250 Heat Pump

R290 Gas

i-290

Key Features

- ▶ DC Inverter, tandem connection.
- ▶ Cascadeable up to XkW.
- ▶ Axial fan features airfoil blades.
- ▶ Refrigerant circuit in copper brazed pipes to EN13134 standard.

Standard components on the hydraulic and electronic side

- ▶ Water side safety valve
- ▶ Drain cock
- ▶ Flow switch (flow presence signaling)
- ▶ Remote on / off clean contact
- ▶ Dynamic set point
- ▶ Fan speed regulator (ECM fans)
- ▶ 2nd set point

Acoustic configurations

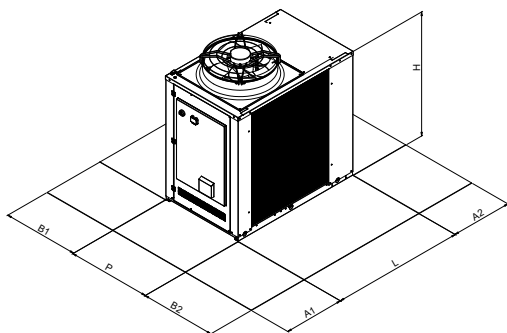
- ▶ **SL** Silenced unit
- ▶ **SSL** Super-silenced unit

Hydraulic configurations

- ▶ **PS** Single pump AC
- ▶ **PSI** Inverter modulated single pump AC
- ▶ **PSEC** Single pump EC
- ▶ **PS-SI** Single pump AC and inertial tank
- ▶ **PSI-SI** Inverter modulated single pump AC and inertial tank
- ▶ **PSEC-SI** Single pump EC and inertial tank

Made in Italy
3 year Manufacturer's warranty





i-290 0240/0250 Heat Pump R290 Gas

Spaces of respect		0240-0250
A1	mm	1200
A2	mm	1000
B1	mm	1500
B2	mm	1500

Dimensions		0240-0250
L	mm	1850
L (with tank)	mm	2460
D	mm	1110
H	mm	1920
H (SSL)	mm	1980

Technical Characteristics		Unit	i-290 0240	i-290 0250
Cooling	Cooling capacity (1)	kW	28,9	34,1
	Power input (1)	kW	9,20	11,0
	E.E.R. (1)	W/W	3,14	3,10
	Cooling capacity (2)	kW	34,5	37,0
	Power input (2)	kW	8,10	8,53
	E.E.R. (2)	W/W	4,26	4,34
	SEER (5)	W/W	4,86	4,80
	Water flow (1)	L/s	1,38	1,63
Heating	Pressure drop on hydronic circuit side (1)	kPa	24	26
	Heating capacity (3)	kW	40,1	50,0
	Power input (3)	kW	9,8	11,9
	C.O.P. (3)	W/W	4,10	4,20
	Heating capacity (4)	kW	38,0	47,9
	Power input (4)	kW	13,1	16,5
	C.O.P. (4)	W/W	2,90	2,90
	Heating capacity (12)	kW	38,4	45,8
	Power input (12)	kW	16,0	18,8
	C.O.P. (12)	W/W	2,40	2,44
	SCOP (6)	W/W	4,09	4,20
	Water flow (4)	L/s	1,14	1,43
	Pressure drop on hydronic circuit side (4)	kPa	20	26
	Energy efficiency - water 35°C / 55°C	Class	A++ / A++	A++ / A++
Compressor	Type	Scroll DC Inverter		
	Quantity		2	2
	Refrigerant oil (type)		PZ46M	PZ46M
	Refrigerant oil (quantity)	mL	1800	1800
	Refrigerant circuits		1	0
Refrigerant	Type		R290	
	Refrigerant quantity (7)	kg	3,15	3,50
	Refrigerant quantity in tonnes of CO2 equivalent (7)	ton	0,009	0,011
	Design pressure (high/low) heat pump mode	bar	30,3 / 1,7	
	Design pressure (high/low) chiller mode	bar	30,3 / 0,7	
External zone fans	Type		EC	
	Quantity	Quantity	1	
	Nominal power (1)	kW	0,62	0,69
	Maximum power input	kW	1,95	1,95
	Maximum current input	A	3,3	3,3
	Nominal air flow	m³/h	17080	18490
Internal heat exchanger	Internal heat exchanger type		Plated / BPHE	
	N° internal heat exchanger		1	1
	Water content	L	2,80	3,48
Hydronic circuit	Water content of the hydronic circuit	L	4,5	5,2
	Maximum pressure hydronic kit (safety valve setting)	bar	6	6
	Hydraulic connections	inch	1" 1/2 (DN 40)	1" 1/2 (DN 40)
	Minimum water volume (8)	L	365	415
Noise	Sound power Lw (9)	dB(A)	82	83
	Sound power level Lw configuration SL (9)	dB(A)	81	82
	Sound power level Lw configuration SSL (9)	dB(A)	80	81
	Sound pressure Lp1 (10) at 1 m	dB(A)	64/64/64	65/65/65
	Sound power level Lw (11)	dB(A)	74	75
Electrical data	Power supply		400V/3P+N+T/50Hz	
	Maximum power input	kW	23	27
	Maximum current input	A	37	44
	Max. power input with antifreeze kit	kW	23	27
	Max. current input with antifreeze kit	A	38	45