



XP Energy™ 38AW-R / 80AW-RA (all-in-one indoor unit)

XP Energy™ 38AW-R/ 80AW-R (wall-hung indoor unit)

For residential and light commercial applications

AIR-TO-WATER HEAT PUMP RANGE

WITH R32 REFRIGERANT



SPLIT AIR-TO-WATER HEAT PUMP RANGE - R32 - 38AW-R / 80AW-RA; 80AW-R

XP ENERGY 38AW-R / 80AW-RA; 80AW-R

The new range of split air-to-water heat pump consists of an outdoor unit that can be matched with either all-in-one or wall-hung indoor unit, depending on your installation needs.

XP Energy split heat pumps are designed to provide heating, cooling and domestic hot water. Outdoor unit is available in 10 power sizes which offer a wide choice of single-phase models from 4 to 16 kW and three-phase models from 12 to 16 kW.

These Outdoor units can be combined with various versions of Indoor unit either wall-hung (with or without back-up heater) or all-in-one (with 190L or 240L DHW tank plus different back-up heater configurations).



Year-round comfort

XP Energy split heat pumps can be used at a wide range of outside air temperatures. In heating mode, they can operate **from -25°C** outdoor air temperature, in cooling mode **up to +43°C** and for domestic hot water from -5°C to + 43°C outdoor air temperature.



Efficient performance

All sizes of XP Energy split heat pumps offer **energy class A+++** for heating (air 7°C, water 35°C)* or A+ for domestic hot water production** and can reach a leaving water temperature of up to 65°C.



Low noise operation

The product's design optimization for low noise levels means that the unit's standard sound power level starts from **56 dB(A) (outdoor unit) and 38 dB(A) (indoor unit)** with a **silent mode that can be activated by the user**.



Compact Design

The XP Energy system includes a compact indoor unit (**only 270 mm depth for wall-hung or 600x600mm footprint for all-in-one**), which offers an effective solution either as renovation or new build.



R32 refrigerant

Refrigerant R32 (GWP=675*)** helps to reduce environmental impact in residential and light commercial applications.****



Wide range

Large choice of single-phase models from 4 to 16 kW **and three-phase models** from 12 to 16 kW.

XP Energy



* The energy efficiency class range of this product category is from A+++ to D

** The energy efficiency class range of this product category is from A+ to F

*** According to Regulation (EU) 2024/573

**** Compared to HVAC equipment utilizing refrigerants with higher GWP

**ONE RANGE,
MANY APPLICATIONS**



Individual
Housing



Collective
Housing



Light
Commercial

SPLIT AIR-TO-WATER HEAT PUMP RANGE - R32 - 38AW-R / 80AW-RA; 80AW-R

Carrier Comfort Management T300

Carrier Comfort Management T300, the new remote control of XP Energy heat pumps, allows to manage the home comfort in heating, cooling and domestic hot water in an intuitive way, via only one device.

Carrier Comfort Management T300 works as main thermostat, gateway and system manager (for full electric and hybrid systems).

Self explicative icons

Easy to use as thermostat for end user

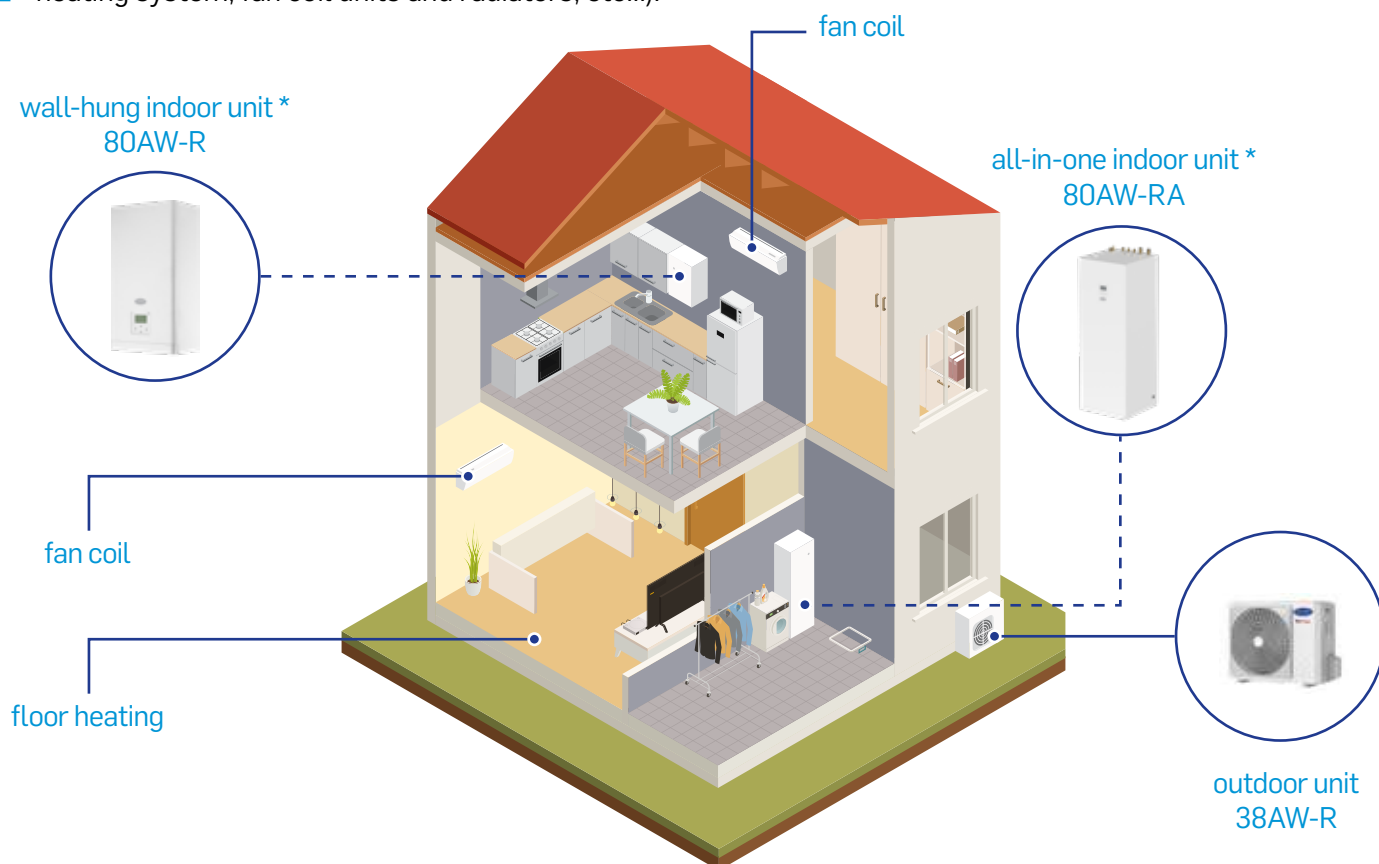
Quick installation



HOW DOES XP ENERGY WORK?

XP Energy is an air-to-water split heat pump that utilizes thermal energy from the air, a renewable and free source, by extracting it through the outdoor unit, and transferring it through the indoor unit to provide year-round comfort, producing heating, cooling, and domestic hot water.

Thermal energy from the air is transferred via an inverter compressor and the refrigerant gas to the water for DHW use, as well as the circuit water (for heating or cooling via various heat emitters for example underfloor heating system, fan coil units and radiators, etc...).



* Depending on customer's and location requirements, you can select between a wall hung or an all-in-one indoor unit. Only one of them is needed to be matched with outdoor unit to offer domestic comfort.

— Choose between wall hung or all-in-one floor standing indoor unit.

TECHNICAL DATA

	U.M.	4kW (1ph)	6kW (1ph)	8kW (1ph)	10kW (1ph)	12kW (1ph)	14kW (1ph)	16kW (1ph)	12kW (3ph)	14kW (3ph)	16kW (3ph)
Performance data*											
Performance in heating [A7/ W35] (1)											
Nominal capacity	kW	4,25	6,20	8,30	10,00	12,10	14,50	16,00	12,10	14,50	16,00
COP	kW/kW	5,20	5,00	5,20	5,00	4,95	4,70	4,50	4,95	4,70	4,50
SCOP **	kW/kW	4,85	4,95	5,22	5,20	4,81	4,72	4,62	4,81	4,72	4,62
ηs **	%	191	195	206	205	189	186	182	189	186	182
Energy class	D → A+++ ****	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
Performance in heating [A7/ W45] (2)											
Nominal capacity	kW	4,35	6,35	8,20	10,00	12,30	14,20	16,00	12,30	14,20	16,00
COP	kW/kW	3,80	3,75	3,95	3,80	3,80	3,65	3,60	3,80	3,65	3,60
Performance in heating [A7/ W55] (3)											
Nominal capacity	kW	4,40	6,00	7,50	9,50	12,00	13,80	16,00	12,00	13,80	16,00
COP	kW/kW	2,95	3,00	3,18	3,10	3,10	3,00	2,90	3,10	3,00	2,90
SCOP **	kW/kW	3,31	3,52	3,37	3,47	3,45	3,47	3,4	3,45	3,47	3,4
ηs **	%	130	138	132	137	135	136	133	135	136	133
Energy class	D → A+++ ****	A++	A++	A++	A++	A++	A++	A++	A++	A++	A++
Performance in cooling [A35/ W18] (4)											
Nominal capacity	kW	4,50	6,55	8,40	10,00	12,00	13,50	14,20	12,00	13,50	14,20
EER	kW/kW	5,55	4,90	5,05	4,80	4,00	3,61	3,61	4,00	3,61	3,61
Performance in cooling [A35/ W7] (5)											
Nominal capacity	kW	4,70	7,00	7,40	8,20	11,60	12,70	14,00	11,60	12,70	14,00
EER	kW/kW	3,45	3,00	3,38	3,30	2,75	2,55	2,45	2,75	2,55	2,45
SEER	kW/kW	4,99	5,34	5,83	5,98	4,89	4,86	4,69	4,89	4,86	4,69
ηs	%	196	210	229	235	192	191	184	192	191	184
Performance in domestic hot water***											
COPdhw (M version / L version)	kW/kW	3,10 / 3,34	3,10 / 3,34	3,02 / 3,36	3,02 / 3,36	n.a. / 3,00	n.a. / 3,00	n.a. / 3,00	n.a. / 3,00	n.a. / 3,00	n.a. / 3,00
DHW seasonal energy efficiency (M version / L version)	%	127 / 136	127 / 136	125 / 137	125 / 137	n.a. / 123	n.a. / 123	n.a. / 123	n.a. / 123	n.a. / 123	n.a. / 123
Load profile (M version / L version)		L / XL	L / XL	L / XL	L / XL	n.a. / XL	n.a. / XL	n.a. / XL	n.a. / XL	n.a. / XL	n.a. / XL
DHW energy class	F → A+*****	A+	A+	A+	A+	A+	A+	A+	A+	A+	A+
Vmax @ 40°C (M version/ L version)	L	200 / 275	200 / 275	200 / 275	200 / 275	n.a. / 280	n.a. / 280	n.a. / 280	n.a. / 280	n.a. / 280	n.a. / 280
DHW tank volume (M version / L version)	L	190 / 240	190 / 240	190 / 240	190 / 240	n.a. / 240	n.a. / 240	n.a. / 240	n.a. / 240	n.a. / 240	n.a. / 240
DHW tank material		Stainless steel									
Sound levels											
Sound power - Outdoor unit (6)	dB(A)	56	58	59	60	64	65	68	64	65	68
Sound power - Indoor unit wall-hung (6)	dB(A)	38	38	42	42	43	43	43	43	43	43
Sound power - Indoor unit all-in-one (6)	dB(A)	38	38	40	40	42	44	44	42	44	44
Sound pressure - Outdoor unit (7)	dB(A)	44	45	46	49	50	51	54	50	51	55
Sound pressure - Indoor unit wall-hung (7)	dB(A)	28	28	30	30	32	32	32	32	32	32
Sound pressure - Indoor unit all-in-one (7)	dB(A)	22	24	22	22	24	25	24	24	25	24
Net weight											
Outdoor unit	kg	58	58	75	75	111	111	111	126	126	126
Indoor unit wall-hung	kg	37	37	37	37	51	51	51	51	51	51
Indoor unit all-in-one	kg	157	157	157	157	159	159	159	159	159	159
Compressor type		DC Twin rotary									
Refrigerant		R32 (GWP = 675)									
Refrigerant charge	kg	1,50	1,50	1,65	1,65	1,84	1,84	1,84	1,84	1,84	1,84

(1) Outside air temperature 7°C DB; water inlet/outlet 30/35°C

(2) Outside air temperature 7°C DB; water inlet/outlet 40/45°C

(3) Outside air temperature 7°C DB; water inlet/outlet 47/55°C

(4) Outside air temperature 35°C; water inlet/outlet 23/18°C

(5) Outside air temperature 35°C; water inlet/outlet 12/7°C

(6) Declared value in compliance with the EN 12102-1 standard

(7) Measured at a position 1m in front of the unit and (1+unit height)/2m above the floor in semi-anechoic chamber

* Performance data are related to the combination of outdoor units and indoor units (either wall-hung or all-in-one), in accordance with EN 14511 standard

** In accordance with EN 14825 standard. Average climate

*** Performance data are related only for all-in-one version, in accordance with EN 16147: 2017 standard at average climate.

**** The energy efficiency class range of this product category is from D to A+++

***** The energy efficiency class range of this product category is from F to A+

Note: All-in-One version M is not available for the power size 12kW (1ph & 3ph) ÷ 16kW (1ph & 3ph)

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