



**Innovation from Norway  
Since 1972**



[www.proteam.no](http://www.proteam.no)



## Heat Pump With Natural Refrigerant

PROTEAM developed R290 Full DC Inverter Heat Pumps.

Compared to R410A refrigerant with a GWP of 2100 and R32 with a GWP of 675, R290 has a GWP of less than 3 and is recognized by the industry as the most eco-friendly refrigerant.



# PROTEAM High Temperature Monobloc



PROTEAM's solution is a seamlessly integrated system designed to deliver comprehensive heating, cooling, and domestic hot water services. This all-encompassing, year-round solution is engineered to eliminate reliance on conventional gas or oil boilers, presenting a sophisticated alternative. PROTEAM system can operate independently or in conjunction with traditional heating systems, offering a versatile and efficient approach to meeting diverse climate control needs.



**Heating**



**Cooling**



**Hot water**



**Set and Check Running  
Parameters In Real Time**



**Cascade Operation**



**Select Operation Mode**



**Built - In Wifi Module**

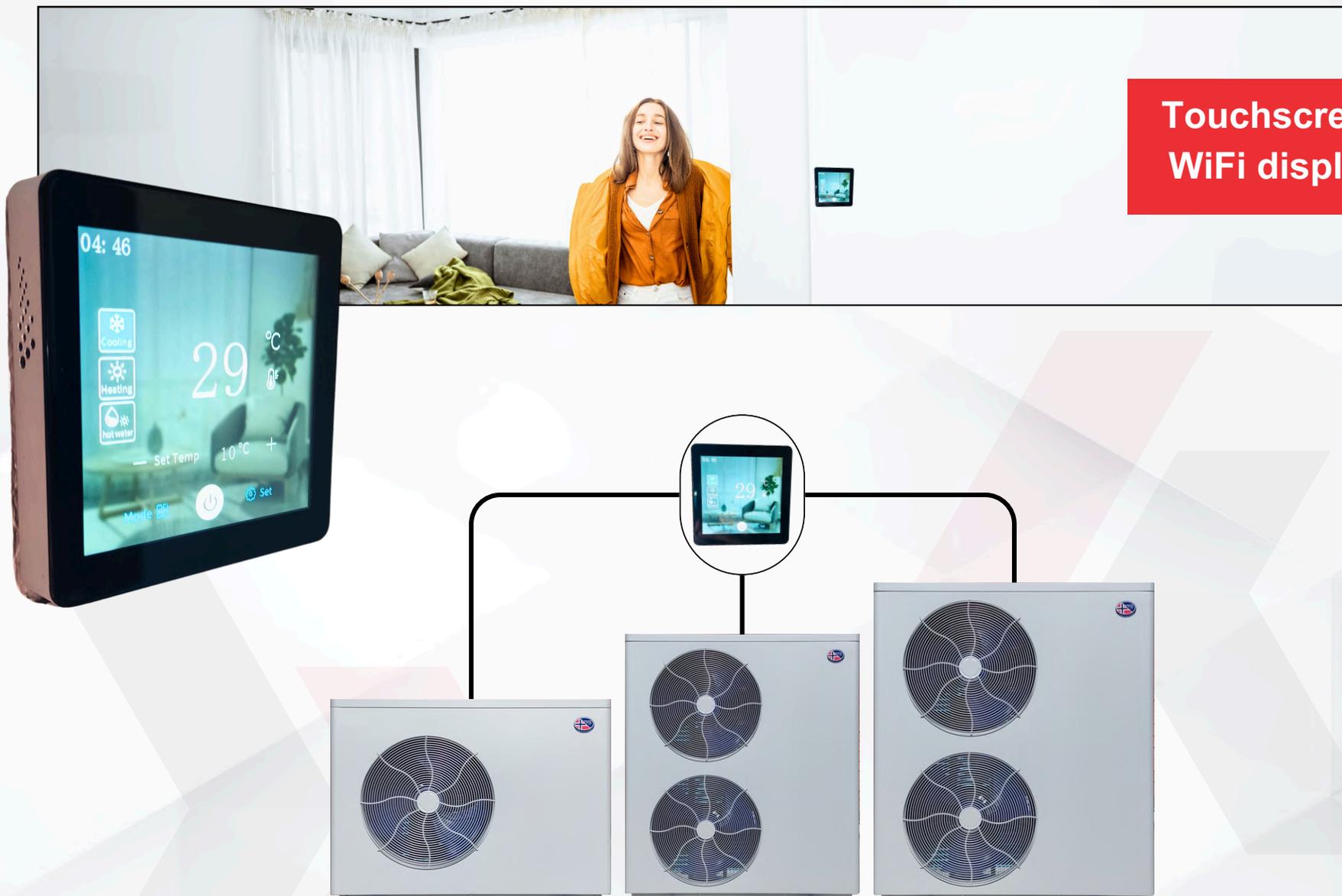


**Modbus Protocol**

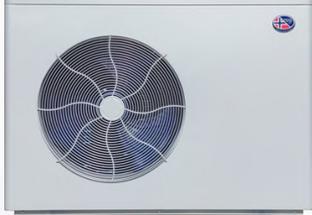


**Display Errors**

## Touchscreen WiFi display



Proteam heat pumps can be controlled very easily using the display, allowing users to customize their own settings for cooling and heating.

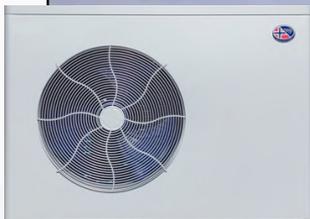


# Pro10i For small apartments

Heating at A7/W35			SCOP		
Heating capacity (min-max)	KW	2.83-8.00	SCOP at 35°C		4.46
Power input (min-max)	KW	0.65-1.84	Energy label		A+++
COP		3.03-5.21	SCOP at 55°C		3.58
Heating at A2/W35			Energy label		A++
Heating capacity (min-max)	KW	2.55-7.25	Power supply	V/Ph/Hz	220-240/1/50
Power input (min-max)	KW	0.71-2.00	Compressor		DC Inverter
COP		2.52-4.32	Fan motor		DC
Heating at A7/W55			Water circulation pump		Inverter
Heating capacity (min-max)	KW	2.53-7.19	Refrigerant		R290 (700g)
Power input (min-max)	KW	0.89-2.54	Refrigerant regulation		Electronic expansion valve
COP		2.30-3.80	Heat exchanger type		Brazed plate
Heating at A2/W55			Water connection	Inch	1
Heating capacity (min-max)	KW	2.27-6.43	Water flow	m³/h	1.4
Power input (min-max)	KW	0.91-2.58	Operating outdoor temperature	°C	-25-43
COP		2.00-3.45	Max heating water temperature	°C	75
Cooling at A35/W7			Min cooling water temperature	°C	7
Cooling capacity (min-max)	KW	2.22-5.92	Sound level	dB(A)	60
Power input (min-max)	KW	0.79-2.11	Net weight	kg	80
EER		2.02-3.36	Dimensions (L*W*H)	mm	1100*460*795

Test condition:  
 1. A7/W35: outdoor air temperature 7°C DB/6°C WB, water inlet/outlet temperature 30°C/35°C  
 2. A2/W35: outdoor air temperature 2°C DB/1 °C WB, water inlet/outlet temperature 30°C/35°C  
 3. A7/W55: outdoor air temperature 7°C DB/6°C WB, water inlet/outlet temperature 47°C/55°C  
 4. A2/W55: outdoor air temperature 2°C DB/1 °C WB, water inlet/outlet temperature 47°C/55°C  
 5. A35/W7: outdoor air temperature 35°C, water inlet/outlet temperature 12°C/7°C





## Pro15i

### Small size, High Performance

Heating at A7/W35			SCOP		
Heating capacity (min-max)	KW	3.65-10.38	SCOP at 35°C		4.48
Power input (min-max)	KW	0.85-2.42	Energy label		A+++
COP		3.01-5.16	SCOP at 55°C		3.57
Heating at A2/W35			Energy label		A++
Heating capacity (min-max)	KW	3.13-8.89	Power supply	V/Ph/Hz	220-240/1/50
Power input (min-max)	KW	0.91-2.58	Compressor		DC Inverter
COP		2.48-4.30	Fan motor		DC
Heating at A7/W55			Water circulation pump		Inverter
Heating capacity (min-max)	KW	3.40-9.63	Refrigerant		R290 (1100g)
Power input (min-max)	KW	1.19-3.38	Refrigerant regulation		Electronic expansion valve
COP		2.00-3.42	Heat exchanger type		Brazed plate
Heating at A2/W55			Water connection	Inch	1
Heating capacity (min-max)	KW	2.96-8.40	Water flow	m <sup>3</sup> /h	1.8
Power input (min-max)	KW	1.20-3.39	Operating outdoor temperature	°C	-25-43
COP		2.0-3.60	Max heating water temperature	°C	75
Cooling at A35/W7			Min cooling water temperature	°C	7
Cooling capacity (min-max)	KW	3.40-8.10	Sound level	dB(A)	63
Power input (min-max)	KW	1.21-2.86	Net weight	kg	85
EER		2.00-3.42	Dimensions (L*W*H)	mm	1100*460*795

#### Test condition:

- A7/W35: outdoor air temperature 7°C DB/6°C WB, water inlet/outlet temperature 30°C/35°C
- A2/W35: outdoor air temperature 2°C DB/1 °C WB, water inlet/outlet temperature 30°C/35°C
- A7/W55: outdoor air temperature 7°C DB/6°C WB, water inlet/outlet temperature 47°C/55°C
- A2/W55: outdoor air temperature 2°C DB/1 °C WB, water inlet/outlet temperature 47°C/55°C
- A35/W7: outdoor air temperature 35°C, water inlet/outlet temperature 12°C/7°C





# Pro20i

## The ideal solution

Heating at A7/W35			SCOP		
Heating capacity (min-max)	KW	5.10-14.50	SCOP at 35°C		4.57
Power input (min-max)	KW	1.21-3.44	Energy label		A+++
COP		3.03-5.10	SCOP at 55°C		3.66
Heating at A2/W35			Energy label		A++
Heating capacity (min-max)	KW	4.59-13.04	Power supply	V/Ph/Hz	220-240/1/50
Power input (min-max)	KW	1.22-3.45	Compressor		DC Inverter
COP		2.65-4.54	Fan motor		DC
Heating at A7/W55			Water circulation pump		Inverter
Heating capacity (min-max)	KW	4.88-13.85	Refrigerant		R290 (1200g)
Power input (min-max)	KW	1.68-4.78	Refrigerant regulation		Electronic expansion valve
COP		2.03-3.48	Heat exchanger type		Brazed plate
Heating at A2/W55			Water connection	Inch	1
Heating capacity (min-max)	KW	4.23-12.00	Water flow	m <sup>3</sup> /h	2.7
Power input (min-max)	KW	1.65-4.68	Operating outdoor temperature	°C	-25-43
COP		2.2-3.7	Max heating water temperature	°C	75
Cooling at A35/W7			Min cooling water temperature	°C	7
Cooling capacity (min-max)	KW	5.15-12.09	Sound level	dB(A)	67
Power input (min-max)	KW	1.76-4.16	Net weight	kg	99
EER		2.05-3.42	Dimensions (L*W*H)	mm	1115*470*1020

Test condition:  
 1. A7/W35: outdoor air temperature 7°C DB/6°C WB, water inlet/outlet temperature 30°C/35°C  
 2. A2/W35: outdoor air temperature 2°C DB/1 °C WB, water inlet/outlet temperature 30°C/35°C  
 3. A7/W55: outdoor air temperature 7°C DB/6°C WB, water inlet/outlet temperature 47°C/55°C  
 4. A2/W55: outdoor air temperature 2°C DB/1 °C WB, water inlet/outlet temperature 47°C/55°C  
 5. A35/W7: outdoor air temperature 35°C, water inlet/outlet temperature 12°C/7°C





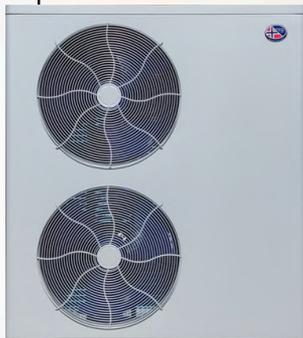
# Pro25i Three phase solution

Heating at A7/W35			SCOP		
Heating capacity (min-max)	KW	5.28-15.00	SCOP at 35°C		4.62
Power input (min-max)	KW	1.28-3.63	Energy label		A+++
COP		3.00-5.00	SCOP at 55°C		3.62
Heating at A2/W35			Energy label		A++
Heating capacity (min-max)	KW	4.53-12.88	Power supply	V/Ph/Hz	380-415/3N/50
Power input (min-max)	KW	1.25-3.56	Compressor		DC Inverter
COP		2.53-4.40	Fan motor		DC
Heating at A7/W55			Water circulation pump		Inverter
Heating capacity (min-max)	KW	5.03-14.29	Refrigerant		R290 (1200g)
Power input (min-max)	KW	1.79-5.09	Refrigerant regulation		Electronic expansion valve
COP		2.02-3.41	Heat exchanger type		Brazed plate
Heating at A2/W55			Water connection	Inch	1
Heating capacity (min-max)	KW	4.59-12.63	Water flow	m <sup>3</sup> /h	2.7
Power input (min-max)	KW	1.76-4.84	Operating outdoor temperature	°C	-25-43
COP		2.00-3.60	Max heating water temperature	°C	75
Cooling at A35/W7			Min cooling water temperature	°C	7
Cooling capacity (min-max)	KW	5.22-12.35	Sound level	dB(A)	67
Power input (min-max)	KW	1.79-4.20	Net weight	kg	99
EER		2.00-3.50	Dimensions (L*W*H)	mm	1115*470*1020

**Test condition:**

- A7/W35: outdoor air temperature 7°C DB/6°C WB, water inlet/outlet temperature 30°C/35°C
- A2/W35: outdoor air temperature 2°C DB/1 °C WB, water inlet/outlet temperature 30°C/35°C
- A7/W55: outdoor air temperature 7°C DB/6°C WB, water inlet/outlet temperature 47°C/55°C
- A2/W55: outdoor air temperature 2°C DB/1 °C WB, water inlet/outlet temperature 47°C/55°C
- A35/W7: outdoor air temperature 35°C, water inlet/outlet temperature 12°C/7°C





# Pro30i

## Three phase - High output

Heating at A7/W35			SCOP		
Heating capacity (min-max)	KW	8.80-21.20	SCOP at 35°C		4.50
Power input (min-max)	KW	1.99-4.80	Energy label		A+++
COP		3.10-5.30	SCOP at 55°C		3.62
Heating at A2/W35			Energy label		A++
Heating capacity (min-max)	KW	6.86-18.60	Power supply	V/Ph/Hz	380-415/3N/50
Power input (min-max)	KW	1.98-4.84	Compressor		DC Inverter
COP		2.73-4.68	Fan motor		DC
Heating at A7/W55			Water circulation pump		Inverter
Heating capacity (min-max)	KW	7.94-19.13	Refrigerant		R290 (1600g)
Power input (min-max)	KW	2.71-6.53	Refrigerant regulation		Electronic expansion valve
COP		2.05-3.52	Heat exchanger type		Brazed plate
Heating at A2/W55			Water connection	Inch	1
Heating capacity (min-max)	KW	7.45-17.95	Water flow	m³/h	3.6
Power input (min-max)	KW	2.66-6.41	Operating outdoor temperature	°C	-25-43
COP		2.20-3.90	Max heating water temperature	°C	75
Cooling at A35/W7			Min cooling water temperature	°C	10
Cooling capacity (min-max)	KW	7.10-17.30	Sound level	dB(A)	73
Power input (min-max)	KW	2.53-5.98	Net weight	kg	135
EER		2.10-3.48	Dimensions (L*W*H)	mm	1165*470*1280

**Test condition:**

1. A7/W35: outdoor air temperature 7°C DB/6°C WB, water inlet/outlet temperature 30°C/35°C
2. A2/W35: outdoor air temperature 2°C DB/1 °C WB, water inlet/outlet temperature 30°C/35°C
3. A7/W55: outdoor air temperature 7°C DB/6°C WB, water inlet/outlet temperature 47°C/55°C
4. A2/W55: outdoor air temperature 2°C DB/1 °C WB, water inlet/outlet temperature 47°C/55°C
5. A35/W7: outdoor air temperature 35°C, water inlet/outlet temperature 12°C/7°C



# iX SERIES INVERTER SWIMMING POOL HEAT PUMPS



Wi Fi

DC  
inverter

R32  
🌿

15.0  
COP

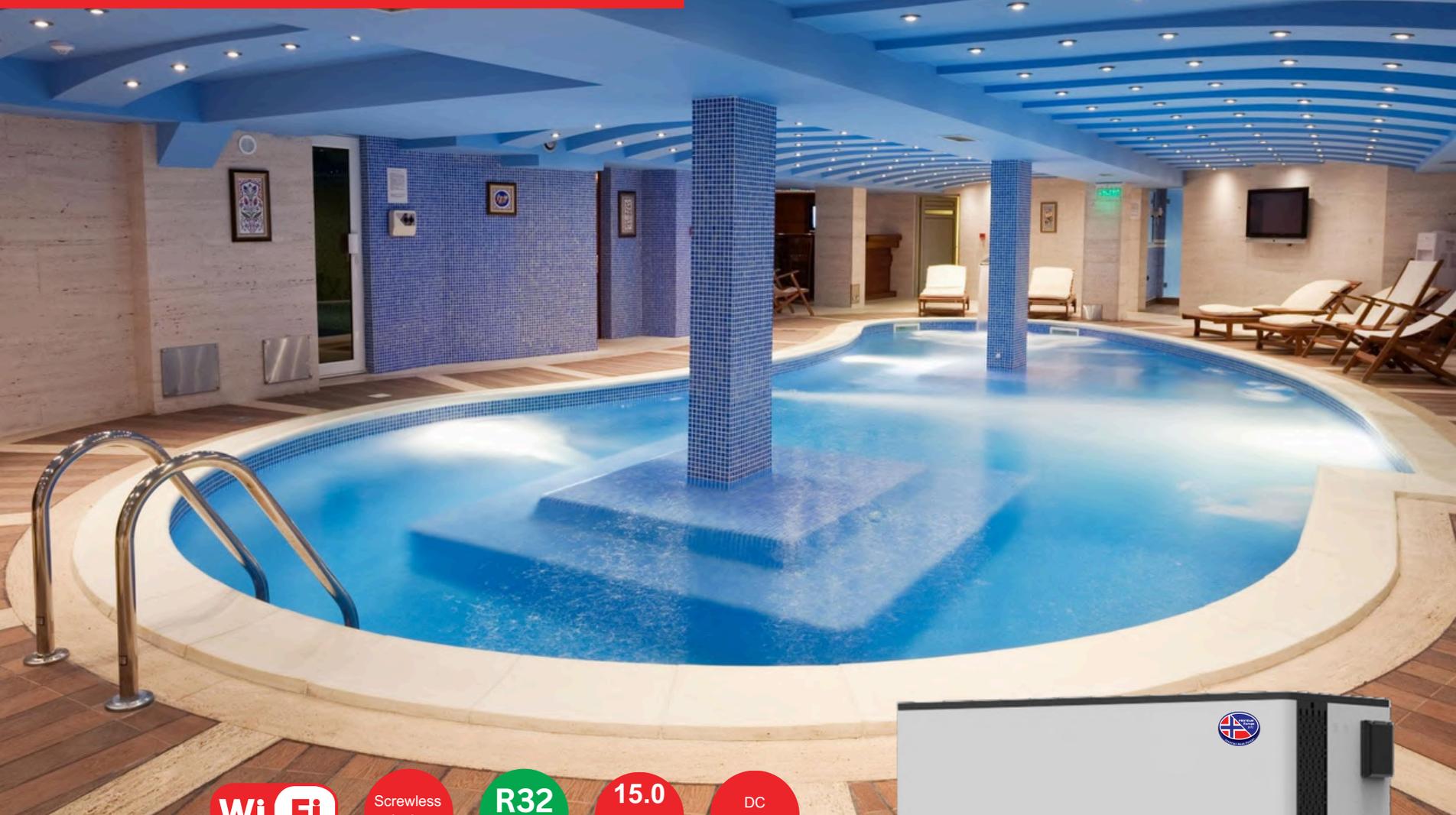




## iX SERIES

	iX-7	iX-11	iX-14	iX-17	iX-25	iX-35
<b>Heating Capacity At Air 26°C, Humidity 80%, Water: 26°C In, 28°C Out</b>						
Heating Capacity (kW)	1.76-7.76	2.40-10.55	3.09-14.01	3.88-17.15	5.86-25.92	8.26-35.62
Power Input (kW)	0.11-1.12	0.15-1.52	0.19-1.95	0.24-2.46	0.36-3.71	0.51-5.10
COP	6.94-15.75	6.95-15.84	6.98-16.12	6.98-15.96	6.99-16.15	6.98-16.12
<b>Heating Capacity At Air 15°C, Humidity 70%, Water: 26°C In, 28°C Out</b>						
Heating Capacity (kW)	1.30-5.76	1.78-7.85	2.29-10.12	2.89-12.78	4.43-19.56	6.62-28.52
Power Input (kW)	0.17-1.16	0.23-1.58	0.30-2.03	0.38-2.57	0.58-3.92	0.87-5.73
COP	4.96-7.57	4.97-7.59	4.99-7.64	4.98-7.63	4.99-7.65	4.98-7.62
<b>Heating Capacity At Air 35°C, Water: 29°C In, 27°C Out</b>						
Cooling capacity (kW)	1.06-4.28	1.48-5.92	1.82-7.25	2.35-9.47	3.51-14.22	4.67-20.11
Power input (kW)	0.16-1.15	0.22-1.57	0.26-1.89	0.34-2.51	0.50-3.72	0.67-5.28
EER	3.73-6.61	3.76-6.74	3.83-6.95	3.78-6.89	3.82-6.97	3.81-6.97
Power supply	220-240V/1/50Hz					220-240V/1/50Hz
Rated power input (kW)	1.2	1.6	2.1	2.6	3.9	5.7
Compressor	Mitsubishi					
Refrigerant	R32					
Heat exchanger	Titanium					
Water flow volume (m <sup>3</sup> /h)	2.5	3.5	4.5	5.5	9	12
Working temperature range (°C)	-15-43					
Noise level (db)	<43	<43	<46	<46	<46	<49
Casing Material	ABS plastic					
Net dimensions (mm) (LxWxH)	860*320*592	860*320*592	920*360*640	920*360*640	1080*370*730	1080*370*730
Net Weight (kg)	40	42	51	54	84	105

# PS SERIES INVERTER SWIMMING POOL HEAT PUMPS



Screwless  
design

R32

15.0  
COP

DC  
inverter



Model		PS15	PS20	PS25	PS35
<b>Performance conditions: Air 27°C, Water 26°C, Humidity 80%</b>					
Heating capacity (min-max)	KW	3.15-14.00	4.00-20.00	4.80-24.00	6.5-32.5
Power input (min-max)	KW	0.21-2.15	0.27-3.33	0.32-4.00	0.43-5.42
COP		6.5-15.0	6.0-14.8	6.0-15.0	6.0-15.0
<b>Performance conditions: Air 15°C, Water 26°C, Humidity 70%</b>					
Heating capacity (min-max)	KW	2.40-10.7	2.85-15.6	3.42-18.7	5.07-25.4
Power input (min-max)	KW	0.34-2.12	0.40-3.25	0.49-3.89	0.72-5.29
COP		5.0-7.1	4.8-7.0	4.8-7.0	4.8-7.0
<b>Performance conditions: Air 35°C, Water 28°C, Humidity 80%</b>					
Cooling capacity	KW	7.2	10.1	11.8	15.6
Power supply	V/Hz	230/1Ph/50Hz			
Compressor		Panasonic			
Refrigerant		R32			
Casing material		Metal			
Water Connection	mm	Φ50			
Net weight/Gross weight	Kg	70/78	81/91	93/103	115/127
Net dimensions (mm) (L x W x H)		980*402*636	1107*503*760	1107*503*760	1187*503*900

## SILENT SERIES

The INVERTER Silent Series Swimming Pool Heat Pump adopts FULL DC INVERTER technology with the double-side discharge design and a double rotor compressor, which brings beauty while effectively reducing the noise level. It is a new design style on the market, specifically designed for swimming pools of 15 to 100m<sup>3</sup>.



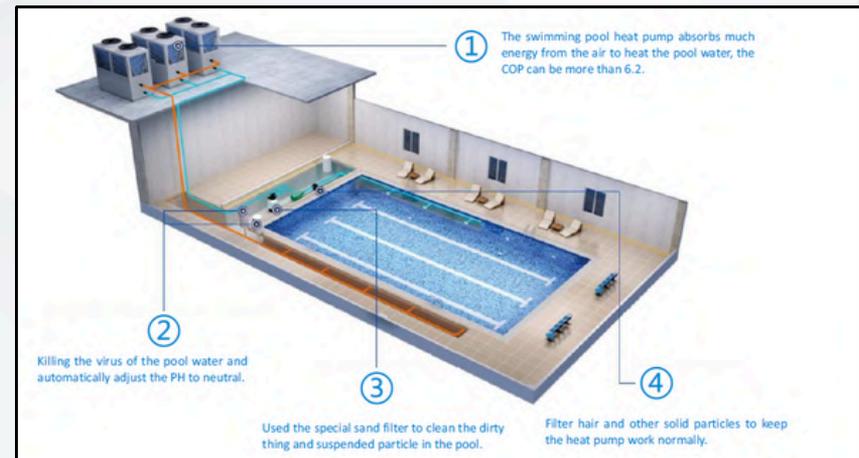
# COMMERCIAL SERIES SWIMMING POOL HEAT PUMPS



Model	PC1030	PC1060	PC1080	PC1110	PC1130	PC1150
Advised pool volume (m <sup>3</sup> )	40-85	80-170	120-250	150-300	210-400	260-500
Operating air temperature (°C)	-7-43					
Performance conditions: Air 27°C, Water 26°C, Humidity 80%						
Heating capacity (min-max)	26.0	51.5	75.0	100.0	121.0	145.0
Heating capacity (Btu)	88400	175100	255000	340000	411400	493000
Consumed power (kW)	4.2	8.4	12.1	16.8	20.2	23.8
COP	6.2	6.1	6.2	6.0	6.0	6.1
Performance conditions: Air 15°C, Water 26°C, Humidity 70%						
Heating capacity (min-max)	18.3	39.8	53.5	77.5	90.3	105.8
Heating capacity (Btu)	62220	135320	181900	263500	307020	359720
COP	4.7	4.7	4.7	4.6	4.7	4.6
Performance conditions: Air 35°C, Water 28°C, Humidity 80%						
Cooling capacity (kW)	16.5	33.4	48.5	65.1	78.5	94.6
Sound pressure at 1m dB(A)	56	58	60	62	64	66
Sound pressure at 10m dB(A)	44	46	48	50	52	54
Heat exchanger	Spiral titanium tube in PVC					
Refrigerant	R410A					
Power supply	380-400V/3PH/50Hz					
Water Connection (mm)	G1-1/2"(PVC female thread)	G2"(PVC female thread)	G2"(PVC female thread)	DN110(PVC flange)	DN110(PVC flange)	DN110(PVC flange)
Rated input current at air 15°C (A)	6.05	13.02	17.52	25.89	29.77	35.35
Advised water flux (m/h)	11.2	22.1	32.3	43.0	52.0	62.4
Water pressure drop (max) kPa	50	50	50	45	45	50
Net weight/Gross weight (kg)	132/145	200/220	248/268	352/372	450/480	465/500
Product size (mm)	740*805*1165	1500*750*1075	1530*790*1100	1705*1005*1230	2005*1050*1400	
Operating water temperature (°C) heating	9-43					
Operating water temperature (°C) cooling	9-35					

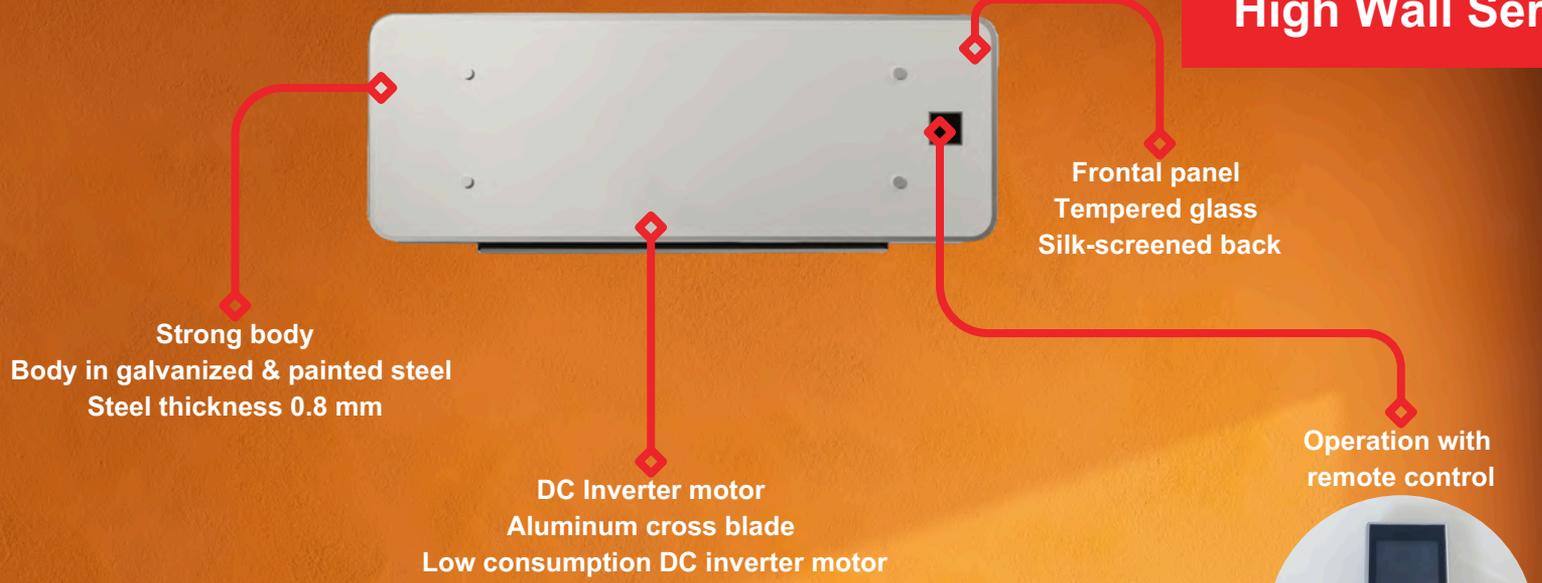
## COMMERCIAL SERIES

Commercial pool heat pump provides maximum energy efficiency and reliability. Working efficiently, the heat pump units absorb heat from the environment, and transfer it to the pool water, which makes the heating process ecological and cost-saving.



# Fan coils

# High Wall Series



PROTEAM NORWAY presents state-of-the-art hydronic fan coils. Setting a new standard in its category, using a super-thin profile at just 12 cm, operates at a minimum noise level of 20 dB (A), and incorporates DC Inverter technology for energy-efficient performance, consuming only up to 17 Watts. With modern design seamlessly integrates into any space, while an aluminum tangential fan ensures superior efficiency in air circulation..

Model		HW 600	HW 800
Heating capacity (1)	kW	2.45	3.30
Heating capacity (2)	kW	2.14	2.83
Heating capacity (3)	kW	3.78	5.04
Heating capacity (4)	kW	2.18	3.01
Cooling capacity (5)	kW	1.70	2.45
Input power (min-max)	Watt	5-14	8-17
Water content	liters	0.43	0.56
Hydraulic connection		1/2 Gas Female	
Max airflow	m <sup>3</sup> /h	450	540
Med airflow	m <sup>3</sup> /h	350	430
Min airflow	m <sup>3</sup> /h	240	310
Sound level (min-max) (6)	db(A)	23.4-38.3	25.0-39.1
Power supply	V/Hz	220-240/50	220-240/50
LCD display		Yes	Yes
Stainless steel filter		Yes	Yes
Front panel tempered glass		Yes	Yes
Net dimensions (L x H x W)	mm	1065*383*120	1257*383*120
Net weight	Kg	17	20

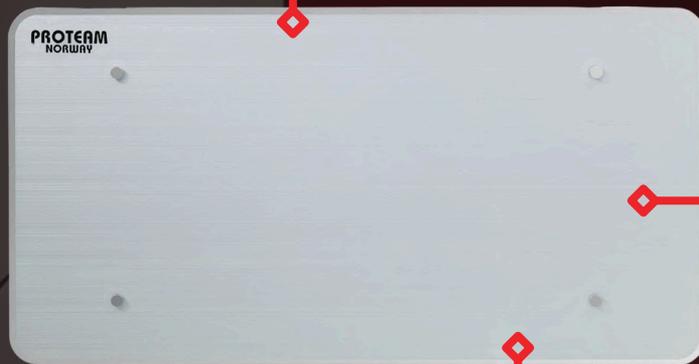


- (1) Water temperature 50 °C, ambient temperature 20 °C b.s. e 15°C b.u. EN 1397 EUROVENT  
 (2) Water temperature 45-40 °C, ambient temperature 20 °C b.s. e 15°C b.u. EN 1397  
 (3) Water temperature 70-50 °C, ambient temperature 20 °C b.s. e 15°C b.u. (Traditional boiler).  
 (4) Water temperature 55-35 °C, ambient temperature 20 °C b.s. e 15°C b.u. (Condensing boiler).  
 (5) Water temperature 7/12 °C, room ambient 27 °C b.s. e 19 °C b.u. EN 1397 EUROVENT  
 (6) SPL tested at a 1m distance, conforming to ISO7779

# Floor Series

Stainless steel filter

Frontal panel  
Tempered glass  
Silk-screened back



Strong body  
Body in galvanized & painted steel  
Steel thickness 0.8 mm

DC Inverter motor  
Aluminum cross blade  
Low consumption DC inverter motor

Top grill  
Extruded painted aluminum  
Touch screen display



Model		FS 400	FS 800
Heating capacity (1)	kW	2.40	4.23
Heating capacity (2)	kW	2.00	3.50
Heating capacity (3)	kW	3.49	6.24
Heating capacity (4)	kW	1.92	3.72
Cooling capacity (5)	kW	1.81	3.38
Input power (min-max)	Watt	13	8-17
Water content	liters	0.59	1.11
Hydraulic connection	1/2 Gas Female		
Max airflow	m <sup>3</sup> /h	315	540
Med airflow	m <sup>3</sup> /h	230	450
Min airflow	m <sup>3</sup> /h	155	310
Sound level (min-max) (6)	db(A)	21.6-35.2	21.7-36.3
Power supply	V/Hz	220-240/50	220-240/50
LCD display		Yes	Yes
Stainless steel filter		Yes	Yes
Front panel tempered glass		Yes	Yes
Net dimensions (L x H x W)	mm	873*553*120	1257*553*120
Net weight	Kg	17.6	24.5



- (1) Water temperature 50 °C, ambient temperature 20 °C b.s. e 15°C b.u. EN 1397 EUROVENT  
 (2) Water temperature 45-40 °C, ambient temperature 20 °C b.s. e 15°C b.u. EN 1397  
 (3) Water temperature 70-50 °C, ambient temperature 20 °C b.s. e 15°C b.u. (Traditional boiler).  
 (4) Water temperature 55-35 °C, ambient temperature 20 °C b.s. e 15°C b.u. (Condensing boiler).  
 (5) Water temperature 7/12 °C, room ambient 27 °C b.s. e 19 °C b.u. EN 1397 EUROVENT  
 (6) SPL tested at a 1m distance, conforming to ISO7779

# Bath Series

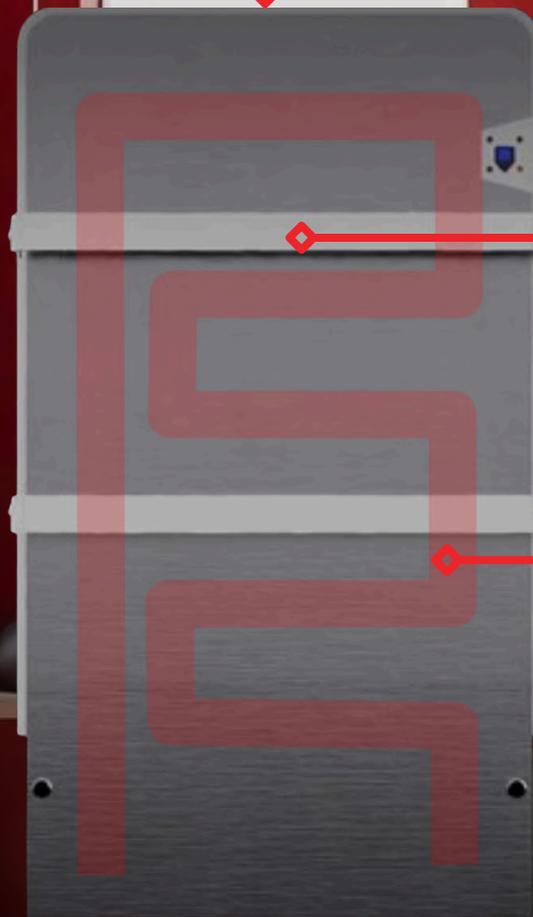
Top grill  
Extruded aluminum

Towels holder

Radiant Panel

Operation with  
remote control

Strong body



Model		BT 400
Heating capacity (1)	kW	1.45
Heating capacity (2)	kW	1.19
Heating capacity (3)	kW	2.09
Heating capacity (4)	kW	1.21
Cooling capacity (5)	kW	1.20
Input power (min-max)	Watt	4-11
Water content	liters	0.52
Hydraulic connection	3/4 Gas Female	
Max airflow	m <sup>3</sup> /h	225
Med airflow	m <sup>3</sup> /h	175
Min airflow	m <sup>3</sup> /h	120
Sound level (min-max) (6)	db(A)	19.1-34
Power supply	V/Hz	4-11
LCD display		Yes
Stainless steel filter		Yes
Front panel tempered glass		Yes
Net dimensions (L x H x W)	mm	1158*506*120
Net weight	Kg	25.8



(1) Water temperature 50 °C, ambient temperature 20 °C b.s. e 15°C b.u. EN 1397 EUROVENT

(2) Water temperature 45-40 °C, ambient temperature 20 °C b.s. e 15°C b.u. EN 1397

(3) Water temperature 70-50 °C, ambient temperature 20 °C b.s. e 15°C b.u. (Traditional boiler).

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(6) SPL tested at a 1m distance, conforming to ISO7779

# Thermostat WiFi & MODBUS



Thermostat WiFi

Crystal  
Thermostat with  
MODBUS



# CLIMATE CHANGE FIGHT

# EUROPEAN CLIMATE STRATEGY IS GOING TO BE UPDATED AND REINFORCED

TARGET

Increased renewable energy (above 32%) by 2030

Reduction of 55% Greenhouse Gas emission by 2030

F-gas regulation

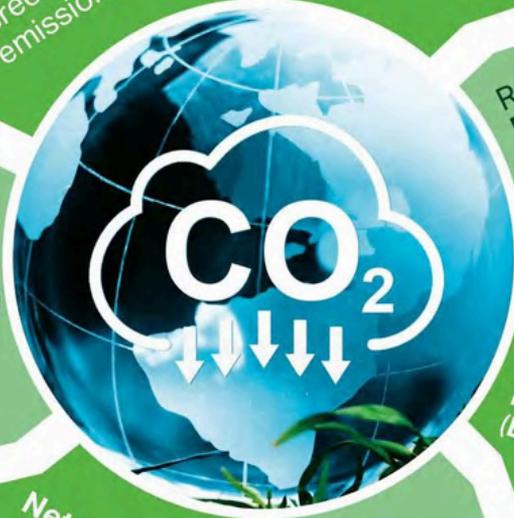
Regulation Renewable Energy Directive

European Performance of Buildings Directive (EPBD)

Ecodesign ERP Directive

Net-zero Greenhouse Gas Emission by 2050

HOW?





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