



# PROTEAM HEAT PUMPS





Siv. Ing. Harald Einevoll first started producing and developing high-quality heat pumps in Norway in 1972. From its humble origin in a small Norwegian village, Proteam's manufacturing and distribution operations have expanded



to several countries around the world. There have been many changes during this time but the passion for innovation and the quest to achieve the best possible quality have remained the same.

THANKS TO THE QUALITY, RELIABILITY AND PERFORMANCE OF ITS PRODUCTS OVER MANY YEARS, PROTEAM IS TODAY ONE OF THE LEADING GLOBAL BRANDS FOR SWIMMING POOL HEAT PUMPS.

At Proteam, we are very aware of the need to balance the advantages associated with comfort and enjoyment of your pool, with the potential impact that our products can have on the environment.

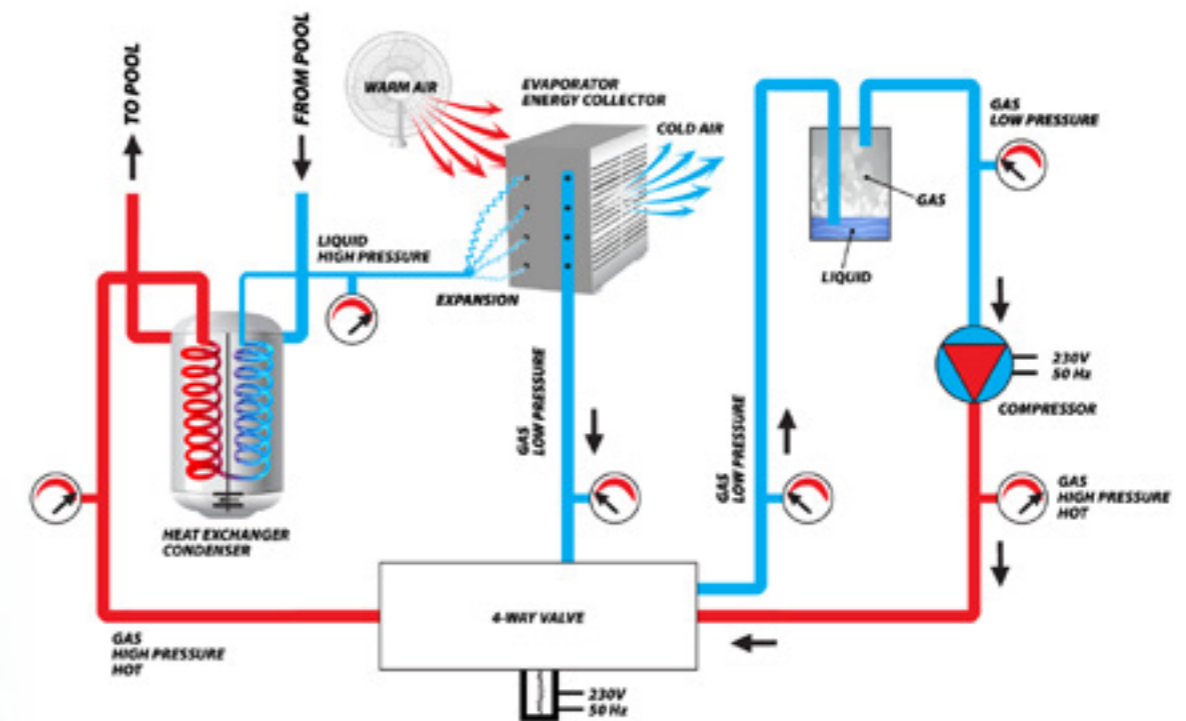
We have recently also developed a complete range of variable-speed inverter units using the latest technological advances in the sector, to maximize performance and minimize consumption.

In consideration of this, Proteam heat pumps have always been specifically designed to have higher COPs at lower temperatures when maximum energy is needed.

From 2019, ALL Proteam heat pumps will be available with R32 gas, which is a more environmentally-friendly option compared to the traditional R410a gas (which will continue to be available).

Heat pumps absorb and collect the energy available in the outside air, and transfer it to the pool water. The heat pump is connected to the pool filtration system, meaning that water is taken from the pool and circulated through the heat pump, where it is heated, before being returned to the pool. The unit itself has a fan that draws in outside air and directs it over the surface of the evaporator (which is effectively an energy collector). The liquid refrigerant inside the evaporator coil absorbs the energy (heat) from the outside air and the liquid refrigerant becomes a gas.

The gas then passes through a compressor where it is compressed to form a very hot gas, which then passes through the heat exchanger (condenser). This is where the transfer of heat takes place, as the hot gas releases heat to the cooler swimming pool water circulating through the coil. The pool water gradually becomes warmer and the hot gas cools back down to its liquid state as it flows through the condenser coil. It then passes through an expansion valve, and the whole process is repeated.



## FEATURES OF PROTEAM HEAT PUMPS

- ✓ Oversized evaporators
- ✓ Double titanium A1 coil heat exchangers (suitable for all type of pools, including those with salt)
- ✓ Pre-charged defrosting system
- ✓ Bottom-pan heating
- ✓ Waterproof display and control panel
- ✓ Cooling function available on most models
- ✓ Wifi function with app available on most models
- ✓ 2-step Norwegian Quality Control System covering:
  - ✓ Checking of raw materials
  - ✓ Welding
  - ✓ Vacuum process
  - ✓ Leak Testing
  - ✓ Refrigerant charging
  - ✓ Electrical Safety Testing





E-MODEL	
Max COP	5,2
COP @ 15°C	4,1
COP @ 5°C	2,5
Output range	from 3kW to 22kW
Cabinet	Galvanized steel
Lowest working temperature	5°C
Highest working temperature	40°C



P-MODEL	
Max COP	6,2
COP @ 15°C	4,8
COP @ 5°C	3,6
Output range	from 6kW to 150kW
Cabinet	ABS / Galvanized steel <i>(vertical models)</i>
Lowest working temperature	-10°C
Highest working temperature	40°C



i-MODEL	
Max COP	14,8
COP @ 15°C	7,9
COP @ 5°C	4
Output range	from 5kW to 32kW
Cabinet	ABS
Lowest working temperature	-15°C
Highest working temperature	43°C



iX-MODEL	
Max COP	16
COP @ 15°C	7,6
COP @ 5°C	4
Output range	from 7kW to 35kW
Cabinet	ABS
Lowest working temperature	-10°C
Highest working temperature	43°C



G-MODEL	
Max COP	16
COP @ 15°C	8
COP @ 5°C	4,2
Output range	from 7kW to 35,2kW
Cabinet	Aluminium Alloy
Lowest working temperature	-10°C
Highest working temperature	43°C



XL-MODEL	
Average COP	10
Output range	from 60kW to 115kW
Cabinet	Aluminium Alloy
Lowest working temperature	-10°C
Highest working temperature	43°C



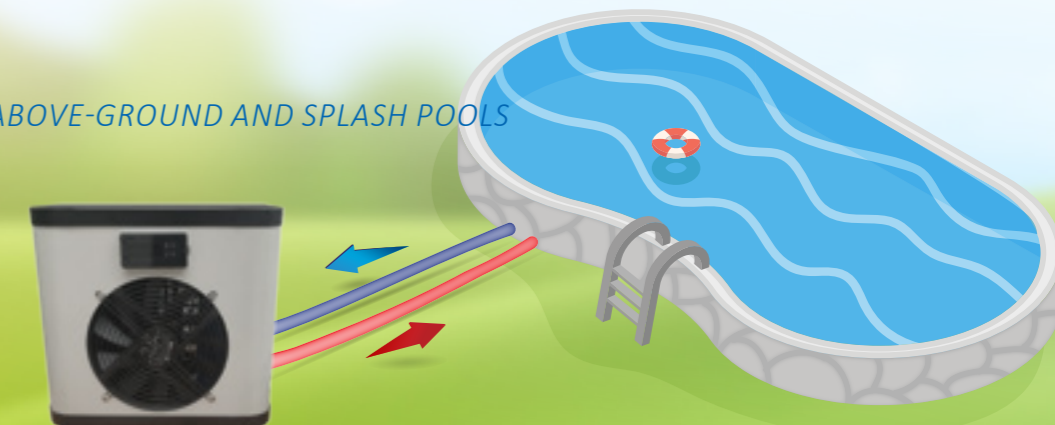
XXS-MODEL	
Max COP	5,45
COP @ 15°C	4,5
COP @ 5°C	N/A
Output range	from 3kW to 5,6kW
Cabinet	Galvanized steel
Lowest working temperature	8°C
Highest working temperature	43°C

**XXS MODEL**

IDEAL CHOICE FOR SPAS, ABOVE-GROUND AND SPLASH POOLS



**ECO FRIENDLY**





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- ✓ Heating and cooling
- ✓ Wide ambient working condition: 0°C ~ 43°C
- ✓ Auto-defrost function
- ✓ Low Cost - High Efficiency
- ✓ Environmentally-friendly R410a Gas
- ✓ Spiral-threaded titanium heat exchanger with anti-corrosion treatment
- ✓ Digital display controller with microprocessor
- ✓ Thick galvanized cabinet with superior static coating for strong corrosion resistance



MODEL	E30	E55	E70	E100	E130	E180	E220	
Power supply V/Ph/Hz	220-240V / 50Hz							
<b>PERFORMANCE</b>								
Air 27°C Water 27°C (Inlet)	Heating capacity (kW)	3,30	5,78	7,01	10,00	12,50	18,00	22,00
	Power input (kW)	0,62	1,04	1,29	1,69	2,08	3,38	4,10
	COP	5,31	5,56	5,42	5,93	6,01	5,33	5,36
Air 15°C Water 26°C (Inlet)	Heating capacity (kW)	2,75	4,35	4,85	6,90	8,70	12,80	14,68
	Power input (kW)	0,59	0,99	1,04	1,46	1,82	2,70	3,14
	COP	4,66	4,70	4,65	4,71	4,70	4,74	4,68
Air 35°C Water 27°C (Inlet)	Cooling capacity (kW)	2,71	3,38	3,78	5,38	7,01	9,98	11,45
	Power input (kW)	0,79	1,12	1,45	1,68	2,07	3,83	4,39
	EER	3,41	3,02	2,61	3,2	3,38	2,61	2,61
Setting temperature range (Heating)	15°C ~ 40°C							
Setting temperature range (Cooling)	12°C ~ 25°C							
Running temperature range	0°C ~ 43°C							
Max power input (kW)	1,01	1,55	1,69	2,29	2,69	3,8	5,29	
Max current (A)	4,65	7,10	7,73	10,49	12,23	17,50	24,50	
Water Connection	DN50	DN50	DN50	DN50	DN50	DN50	DN50	
Water flow (m³/h)	1,65	2,8	3,5	4,8	6,2	7	8	
Sound level (1m) (dB)	45	45	46	47	48	51	52	
Sound level (10m) (dB)	35	35	36	37	38	40	41	
<b>COMPONENTS</b>								
Refrigerant type	R410A							
Compressor	Toshiba						Highly	
Compressor type	Rotary						Scroll	
Heat Exchanger	Titanium PVC tank							

# P-MODEL



- ✓ oversized coated energy collector (air coils) - higher COP
- ✓ titanium class A1 double-coil heat exchanger
- ✓ active auto-charged defrosting system - higher COP
- ✓ digital display
- ✓ waterproof display and control panel
- ✓ strong plastic casing - no corrosion
- ✓ WiFi option available

MODEL*			P6	P8	P10	P13	P15	P17	P20	P21
Measuring conditions A24°C W26°C	Heating Capacity	kW	4,8	6,2	8,2	9,4	11,6	12,9	17,2	23,2
	COP	kW/kW	5,0	5,4	5,1	5,3	5,4	5,1	4,9	6,2
Measuring conditions A15°C W26°C	Heating Capacity	kW	3,6	4,5	6,2	7,1	8,7	9,7	12,9	17,9
	COP	kW/kW	3,8	4,1	3,8	4,0	4,1	3,8	3,7	4,8
Input Power		kW	1,0	1,1	1,6	1,8	2,1	2,5	3,5	3,7
Running Current		A	4,5	5,0	7,3	8,2	9,5	11,4	15,9	16,8
Power Supply	V/PH/Hz	220-240V/1PH/50HZ								
Controller		LED/LCD								
Heat Exchanger		Titanium Coil								
Number of Compressors		1	1	1	1	1	1	1	1	1
Compressor			Rotary					Scroll		
Number of Fans		1	1	1	1	1	1	1	1	1
Input Power of Fun		W	60	60	80	100	100	110	110	220
Fand Speed		RPM	910	910	890	890	890	850	850	850
Noise (the highest value)		dB	50	50	53	54	54	56	56	56
Water Connection		inch	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	1-1/2
Water Flow Rate (min)		m³/h	1,3	1,6	2,2	2,7	3,6	4,0	4,9	6,0
Water Pressure Drop		kpa	10	10	10	12	12	14	14	16
Net Dimensions	L	mm	778	778	938	1015	1015	1080	1080	1078
	W	mm	293	293	360	370	370	416	416	416
	H	mm	511	511	581	621	621	708	708	958
Packing Dimensions	L	mm	880	880	1060	1140	1150	1160	1160	1150
	W	mm	340	340	390	410	410	460	460	475
	H	mm	550	550	620	660	660	840	840	1088
Weight	Net Weight	kg	33	35	48	55	60	68	92	99
	Gross Weight	kg	38	39	56	62	67	80	105	114

\* Previously PC models. From 2019 PC models have been renamed as P models.

# P-MODEL



- ✓ bottom heater to prevent ice formation
- ✓ galvanized bottom plate for horizontal type
- ✓ horizontal air flow
- ✓ easy connection to water system
- ✓ rotary/Scroll compressor
- ✓ flow switch protection
- ✓ high/Low-pressure switch protection



MODEL*		P20P3	P25P3	P30P3	P35P3	P40UP3	P45UP3	P55UP3	P90UP3	P135UP3
Measuring conditions A24°C W26°C	Heating Capacity (kW)	17,0	22,5	26,7	33,1	40,5	45,4	64,6	84,1	134,7
	COP	5,5	5,4	5,3	5,5	5,2	5,6	5,8	5,7	5,8
Measuring conditions A24°C W26°C	Heating Capacity (kW)	12,7	16,9	20,0	24,8	31,2	35,0	49,8	64,8	103,7
	COP	4,1	4,1	4,0	4,1	4,0	4,3	4,5	4,4	4,5
Input Power (kW)		3,1	4,2	5,0	6,0	7,8	8,1	11,1	14,8	23,2
Running Current (A)		5,2	7,1	8,4	10,1	13,2	13,7	18,8	25,0	39,2
Power Supply		380-400V/3PH/50Hz								
Controller		LED/LCD								
Heat Exchanger		Titanium Coil								
Number of Compressors		1	1	1	1	1	2	2	3	4
Compressor		Scroll								
Number of Fans		1	1	2	2	1	2	2	3	3
Input Power of Fun (W)		110	220	440	550	220	320	320	480	750
Fand Speed (RPM)		850	850	850	850	830	830	830	830	870
Noise (the highest value) (dB)		56	56	57	57	59	60	60	62	65
Water Connection (inch)		1-1/2	1-1/2	1-1/2	1-1/2	1-1/2	2	2	2-1/2	3
Water Flow Rate (m³/h)		4,9	6,0	7,5	13,0	15,0	17,0	20,0	35,0	50,0
Water Pressure Drop (kPa)		14	16	16	30	16	15	15	16	18
Net Dimensions (mm)	L	1080	1078	1078	1078	660	1448	1448	2150	2000
	W	416	416	416	416	660	730	730	760	900
	H	708	958	1258	1258	960	1060	1060	1330	1820
Packing Dimensions (mm)	L	1160	1160	1160	1160	700	1630	1630	2275	2150
	W	460	490	490	490	740	810	810	900	1020
	H	840	1100	1390	1390	1110	1180	1180	1500	2080
Weight (kg)	Net Weight	90	99	117	119	234	254	265	397	660
	Gross Weight	103	114	134	135	270	283	290	443	712

# i-MODEL

# iX-MODEL



- ✓ Full DC Twin-Rotary Inverter Compressor and Brushless DC Inverter Motor with infinitely variable speed
- ✓ Soft-starter (wide start-up voltage range)
- ✓ Intelligent controller
- ✓ Wifi capability with dedicated user friendly app
- ✓ 3 operating modes (Silent / Smart / Boost)
- ✓ Heating and cooling function
- ✓ Higher COP
- ✓ Lower noise (inverter technology and insulated compressor)
- ✓ Smart defrost
- ✓ Very low working temperatures up to -15°C
- ✓ Environmentally-friendly R32 or R410 gas



- ✓ Full DC Twin-Rotary Inverter Compressor and Brushless DC Inverter Motor with infinitely variable speed
- ✓ Soft-starter (wide start-up voltage range)
- ✓ Intelligent controller
- ✓ Wifi capability with dedicated user friendly app
- ✓ Heating and cooling function
- ✓ DC inverter fan motor with sawtooth fan (lower noise)
- ✓ Higher COP
- ✓ Lower noise (inverter technology and insulated compressor)
- ✓ Smart defrost
- ✓ Very low working temperatures down to -10°C
- ✓ Environmentally-friendly R32 or R410 gas

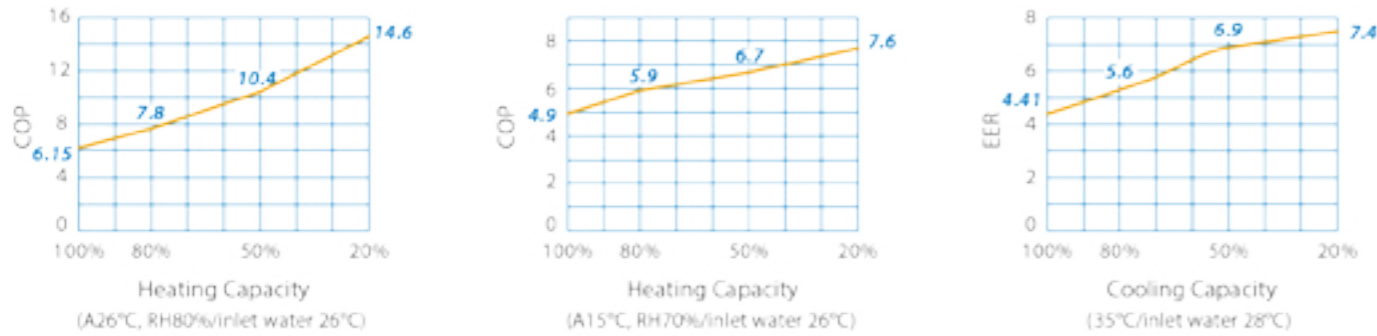
MODEL	i5	i7	i9	i11	i14	i17	i21	i25	i29	i32	
Advised Pool Volume (m <sup>3</sup> ) with insulating/isothermal cover	10~20	15~30	20~40	25~50	30~60	35~70	40~80	65~110	70~120	80~150	
<b>PERFORMANCE</b>											
Heating * Air 26°C / Water 26°C Humidity 80%	Capacity (kW)	1.6~5.3	1.6~7.2	1.9~9.2	2.7~10.9	3.4~14.3	4.3~17.4	4.8~21.2	6.2~25.1	6.6~29	7.7~31.7
	Power input (kW)	0.13~0.88	0.13~1.19	0.13~1.28	0.18~1.74	0.23~2.32	0.29~2.85	0.33~3.38	0.4~3.8	0.46~4.42	0.54~5.21
	COP	6.25~14.5	6.22~14.55	6.24~14.71	6.27~14.8	6.15~14.62	6.0~14.5	6.36~14.55	6.2~14.52	6.1~14.54	6.11~14.6
Heating ** Air 15°C / Water 26°C Humidity 70%	Capacity (kW)	1.1~3.8	1.3~5.1	1.6~5.95	2.18~8.13	2.86~10.65	3.49~13	3.76~15.7	5.15~18.52	5.43~21.28	6.34~23.68
	Power input (kW)	0.14~0.75	0.17~1.06	0.21~1.2	0.28~1.59	0.38~2.17	0.47~2.64	0.48~2.75	0.61~3.6	0.73~4.1	0.87~4.8
	COP	5.1~7.9	4.8~7.8	5~7.7	4.9~7.8	4.9~7.6	4.85~7.44	5.1~7.52	4.91~7.53	4.95~7.51	4.9~7.6
Cooling * Air 35°C / Water 28°C Humidity 80%	Capacity (kW)	1.5~2.8	1.7~3.6	1.8~4.6	2.4~6.0	3.2~7.87	3.9~9.6	4.3~11.5	5.8~13.9	6.2~16	7.2~17.5
	Power input (kW)	0.2~0.62	0.22~0.8	0.28~1.2	0.33~1.39	0.43~1.78	0.51~2.3	0.57~2.62	0.73~3.1	0.82~3.48	0.97~4.17
	EER	4.51~7.55	4.48~7.53	4.47~7.46	4.32~7.34	4.41~7.42	4.24~7.4	4.38~7.48	4.15~7.22	4.29~7.54	4.21~7.44
Sound Pressure Level at 1m (dB)	38-47	39-48	39-48	40-49	43-52	45-53	45-54	48-56	49-56	50-57	
Sound Pressure Level at 4m (dB)	27-35	29-37	29-37	30-38	31-38	33-41	33-41	36-42	37-45	38-47	
Sound Pressure Level at 10m (dB)	19-27	20-28	20-28	21-28	21-29	23-32	24-32	25-34	27-37	27-38	
Power Supply	V / Ph / Hz	230V / 50Hz / 1 Ph									
Operating air temperature	°C	-15°C~43°C									
Max current	A	5,35	7,24	6,53	8,4	9,6	13,77	14,3	18,36	21,35	25,2
Recommended water flow	m <sup>3</sup> /h	2~3	2~3	3~5	4~6	5~7	6~8	7~9	8~11	9~12	12~15
<b>COMPONENTS</b>											
Refrigerant	R32 or R410a										
Compressor type	DC Twin Rotary Inverter										
Heat Exchanger	Twisted Coil, Titanium										
Fan Direction	Horizontal										
Casing Type	ABS										
<b>INSTALLATION</b>											
Inlet/Outlet Unions G1 - 1/2'											
Unit dimensions	L*W*H (mm)	860*330*668			986*356*668			1076*426*720		1176*451*822	
Shipping dimensions	L*W*H (mm)	950*410*800			1080*435*800			1161*490*855		1261*515*957	
Net/Gross weight	kg	35/42	38/45	40/48	44/54	46/56	56/66	67/80	72/85	90/108	98/116

Above data is subject to modification without notice for technical upgrade.

PROTEAM MODEL	iX-7	iX-10	iX-14	iX-17	iX-21	iX-25	iX-30	iX-30T	iX-35	
<b>HEATING CAPACITY AT AIR 26°, HUMIDITY 80%, WATER: 26° IN, 28° OUT</b>										
Heating Capacity (kW)	7.76~1.76	10.55~2.40	14.01~3.09	17.15~3.88	21.41~4.85	25.92~5.86	30.01~6.81	30.05~6.84	35.62~8.26	
Power Input (kW)	1.12~0.11	1.52~0.15	1.95~0.19	2.46~0.24	3.08~0.30	3.71~0.36	4.30~0.42	4.30~0.42	5.10~0.51	
COP	15.75~6.94	15.84~6.95	16.12~6.98	15.96~6.98	15.95~6.96	16.15~6.99	16.11~6.98	16.14~6.99	16.12~6.98	
<b>HEATING CAPACITY AT AIR 15°, HUMIDITY 70%, WATER: 26° IN, 28° OUT</b>										
Heating Capacity (kW)	5.76~1.30	7.85~1.78	10.12~2.29	12.78~2.89	15.91~3.59	19.56~4.43	22.05~4.98	22.14~4.99	28.52~6.62	
Power Input (kW)	1.16~0.17	1.58~0.23	2.03~0.30	2.57~0.38	3.20~0.47	3.92~0.58	4.43~0.65	4.44~0.65	5.73~0.87	
COP	7.57~4.96	7.59~4.97	7.64~4.99	7.63~4.98	7.59~4.97	7.65~4.99	7.62~4.98	7.63~4.99	7.62~4.98	
<b>COOLING CAPACITY AT AIR 35°, WATER: 29° IN, 27° OUT</b>										
Cooling Capacity (kW)	4.28~1.06	5.92~1.48	7.25~1.82	9.47~2.35	11.58~2.96	14.22~3.51	15.86~3.91	15.89~3.93	20.11~4.67	
Power Input (kW)	1.15~0.16	1.57~0.22	1.89~0.26	2.51~0.34	3.07~0.43	3.72~0.50	4.18~0.56	4.17~0.56	5.28~0.67	
EER	6.61~3.73	6.74~3.76	6.95~3.83	6.89~3.78	6.87~3.77	6.97~3.82	6.94~3.79	6.98~3.81	6.97~3.81	
Power supply	220~240V/1/50Hz							380~415V/3/50Hz	220~240V/1/50Hz	
Rated Power Input (kW)	1,2	1,6	2,1	2,6	3,2	3,9	4,4	4,4	5,7	
Rated Current (A)	5,4	7,3	9,4	11,7	14,6	17,8	20,1	7,9	26	
Compressor	Mitsubishi									
Refrigerant	R32									
Heat Exchanger	Titanium									
Air Flow Direction	Horizontal									
Water Flow Volume (m <sup>3</sup> /h)	2,5	3,5	4,5	5,5	6,5	9	10	10	12	
Defrost function	4-way valve									
Working temperature range (°C)	-15~43									
Noise level (dB)	≤ 43	≤ 43	≤ 46	≤ 46	≤ 46	≤ 46	≤ 48	≤ 48	≤ 49	
Casing Material	ABS plastic									
Net Dimensions (mm) (L x W x H)	860*320*592	860*320*592	920*360*640	920*360*640	920*360*640	1080*370*730	1080*370*730	1080*370*730	1080*370*730	
Package Dimensions (mm) (L x W x H)	940*400*710	940*400*710	990*430*760	990*430*760	990*430*760	1140*440*860	1140*440*860	1140*440*860	1140*440*860	
Net Weight (kg)	40	42	51	54	58	84	86	86	105	
Gross Weight (kg)	51	53	62	65	69	95	97	97	116	
Water Proof Level	IPX4									



HEATING/COOLING PERFORMANCE OF PROTEAM i14 MODEL IN DIFFERING CONDITIONS



SOFT-START AND STABLE OPERATION

Proteam’s full DC inverter technology ensures more stable running than traditional ON/OFF units, allowing to maintain your pool water temperature at a more optimal level with reduced running cost.

An incorporated soft-starter ensures that your house’s electricity supply is not affected when the unit starts-up, as the current gradually increases after the unit is switched on and starts to operate. As a result, Proteam inverter units are also able to operate in conditions where the main power supply is unstable (within an extended range of 180V – 260V).



WiFi CAPABILITY



MODEL	HEATING CAPACITY (kW) AT DIFFERENT TEMPERATURES								COP				COOLING	
	27°C	24°C	15°C	10°C	5°C	0°C	-5°C	-10°C	24°C	15°C	5°C	0°C	A35°C/ W27°C	EER
E30	3,3	3,1	2,8	2,3	1,8				4,8	3,7	2,3		2,71	3,41
E55	5,8	5,4	4,4	3,7	2,9				5,0	3,9	2,4		3,38	3,02
E70	7,0	6,5	4,9	4,1	3,2				4,9	3,8	2,4		3,78	2,61
E100	10,0	9,3	6,9	5,9	4,6				5,1	4,0	2,5		5,38	3,2
E130	12,5	11,6	8,7	7,4	5,8				5,2	4,1	2,5		7,01	3,38
E180	18,0	16,7	12,8	10,9	8,5				4,9	3,8	2,4		9,98	2,61
E220	22,0	20,5	14,7	12,5	9,7				5,0	3,9	2,4		11,45	2,61
P6	5,8	4,8	3,6	3,1	2,5	2,1			5,0	3,8	2,7	2,2	1,8	2,8
P8	7,6	6,2	4,5	3,8	3,3	2,6			5,4	4,1	2,9	2,4	2,4	2,9
P10	9,6	8,2	6,2	5,3	4,2	3,6			5,1	3,8	2,7	2,2	3,1	2,9
P13	12,1	9,4	7,1	6,0	4,6	4,2			5,3	4,0	2,8	2,3	3,6	2,8
P15	14,2	11,6	8,7	7,4	5,6	5,1			5,4	4,1	2,9	2,4	4,4	2,9
P17	17,1	12,9	9,7	8,2	6,6	5,7			5,1	3,8	2,7	2,2	4,9	2,8
P20	20,2	17,2	12,9	11,0	9,1	7,6			4,9	3,7	2,6	2,2	6,5	2,7
P21	21,2	23,2	17,9	15,1	9,7	8,2			6,2	4,8	3,6	2,7	9,3	3,1
P25P3	25,0	22,5	16,9	14,4	10,8	9,9			5,4	4,1	2,4	2,4	8,6	2,8
P30P3	30,1	26,7	20,0	17,1	13,1	11,7			5,3	4,0	2,3	2,3	10,1	3,0
P35P3	35,0	33,1	24,8	21,2	15,6	14,6			5,5	4,1	2,4	2,4	12,6	3,0
P40UP3	45,1	40,5	31,2	26,4	20,3	17,8	15,4		5,2	4,0	2,3	2,3	16,2	3,2
P45UP3	55,3	45,4	35,0	29,5	21,1	20,0	17,3		5,6	4,3	2,5	2,4	18,2	3,3
P55UP3	75,0	64,6	49,8	42,0	28,9	28,4	24,6		5,8	4,5	2,6	2,5	25,8	3,3
P90UP3	99,5	84,1	64,8	54,7	38,3	37,0	32,0		5,7	4,4	2,5	2,5	33,6	3,3
P135UP3	150,0	134,7	103,7	87,6	60,3	59,3	51,2		5,8	4,5	2,6	2,6	53,9	3,2
i5	5,3	5,0	3,8	3,3	2,8	2,4	2,8	2,0	14,5	7,9	4,0	3,0	2,8	7,6
i7	7,2	6,8	5,1	4,4	3,7	3,2	3,8	2,6	14,6	7,8	3,9	2,9	3,6	7,5
i9	9,2	8,6	6,0	5,1	4,3	3,7	4,4	3,1	14,7	7,7	3,9	2,9	4,6	7,5
i11	10,9	10,2	8,1	7,0	5,9	5,1	6,0	4,2	14,8	7,8	3,9	2,9	6,0	7,3
i14	14,3	13,4	10,7	9,2	7,8	6,6	7,9	5,5	14,6	7,6	3,8	2,9	7,9	7,4
i17	17,4	16,4	13,0	11,2	9,5	8,1	9,6	6,7	14,5	7,4	3,7	2,8	9,6	7,4
i21	21,2	19,9	15,7	13,5	11,5	9,8	11,6	8,1	14,6	7,5	3,8	2,8	11,5	7,5
i25	25,1	23,6	18,5	15,9	13,5	11,5	13,7	9,6	14,5	7,5	3,8	2,8	13,9	7,2
i29	29,0	27,3	21,3	18,3	15,6	13,2	15,7	11,0	14,5	7,5	3,8	2,8	16,0	7,5
i32	31,7	29,8	23,7	20,4	17,3	14,7	17,5	12,3	14,6	7,6	3,8	2,9	17,5	7,4



G - silent



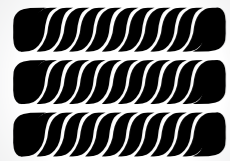
# G-MODEL



G-silent Saginomiya 4-way defrosting valve Increase the efficiency by fast defrosting



Mitsubishi DC Twin Compressor



Twisted Titanium Class A Heat Exchanger Increase the efficiency by 30 %



Touch Control Panel



WiFi

WiFi Control



PROTEAM MODEL	G108	G110	G112	G115	G117	G120	G125	G130	G130T	G135T
<b>PERFORMANCE CONDITION: AIR 27°C/ WATER 27°C/ HUMID. 80%</b>										
Heating capacity (kW)	7,0	9,0	11,0	13,0	15,0	17,5	21,0	28,0	28,0	35,2
COP range	14~7.2	14~7.2	14~7	14.5~7.0	15~7	15.6~7	14.8~7.1	16~7.2	15.8~7.1	15.5~7
Average COP at 50% speed	10,5	10,5	10,3	10,5	11,0	11,0	11,0	11,1	10,8	10,5
<b>PERFORMANCE CONDITION: AIR 15°C/ WATER 26°C/ HUMID. 70%</b>										
Heating capacity (kW)	5,0	6,6	7,7	9,0	10,5	12,5	14,5	19,0	19,0	24,2
COP range	7.3~4.5	7.5~4.8	7.3~4.7	7.5~5	7.7~4.9	7.7~5.0	7.1~5.0	8~5.0	8~5.0	7.5~5.0
Average COP at 50% speed	6,5	6,5	6,6	6,4	6,8	6,6	6,6	6,6	6,5	6,6
<b>PERFORMANCE CONDITION: AIR 35°C/ WATER 28°C/ HUMID. 80%</b>										
Cooling capacity (kW)	3,5	4,4	5,4	6,3	7,4	8,0	10,1	11,9	11,9	16,1
<b>TECHNICAL SPECIFICATIONS</b>										
Advised pool volume (m <sup>3</sup> ) *	15~30	20~45	30~55	35~65	40~70	40~80	50~95	60~120	60~120	85~160
Operating air temperature (°C)	-10°C~43°C									
Compressor	Twin-rotary Mitsubishi DC Compressor									
Casing	Aluminum-alloy Casing									
Heat exchanger	Twisted Titanium Heat Exchanger									
Power supply	230V 1Ph								400V 3Ph	
Rated input power (kW)	0.14~1.12	0.19~1.38	0.22~1.64	0.26~1.8	0.28~2.15	0.33~2.50	0.38~2.90	0.49~3.80	0.49~3.80	0.65~4.84
Input power at 50% speed (kW)	0,38	0,51	0,58	0,7	0,77	0,95	1,1	1,44	1,46	1,84
Rated input current (A)	0.61~4.83	0.83~5.98	0.96~7.13	1.13~7.83	1.22~9.32	1.44~10.9	1.66~12.7	2.15~16.53	0.71~5.51	0.95~7.01
Sound level at 1m (dB)	36.5~46.0	36.8~46.2	36.6~47.9	40.1~48.7	39.3~52	41.1~51.8	38.9~52.2	41.5~52.9	41.5~52.9	40.6~52.6
Sound level 50% at 1m (dB)	39,2	39,4	41,3	43,7	44	44,5	44,4	46,4	47	46,1
Sound level at 10m (dB)	16.5~26.0	16.8~26.1	16.6~27.9	20.1~28.7	19.3~32	21.1~31.8	18.9~32.2	21.5~32.9	21.5~32.9	20.6~32.6
Recommended water flow (m <sup>3</sup> /h)	2~4	2~4	3~5	4~6	5~7	6~8	8~10	10~12	10~12	12~18
Water connection (mm)	50									
Net dimension LxWxH (cm)	89*44*65,8	89*44*65,8	89*44*65,8	89*44*65,8	97*44*65,8	106*44*65,8	106*44*75,8	106*44*95,8	106*44*95,8	
Net Weight (kg)	52	53	55	57	61	66	72	91	96	
Qty per 20'FT/40'HQ (sets)	78/174	78/174	78/174	78/174	75/162	72/150	48/150	48/100	48/100	

\* The data above is only for reference. For specific data, please refer to the nameplate on the unit.

\* Advised pool volume applies to a private pool with isothermal cover, from April to September.

## UNIQUE AIR FLOW DESIGN: SIDE AIR INLET / BACK AIR OUTLET







POWERFUL SAVING  
COMMERCIAL INVERTER

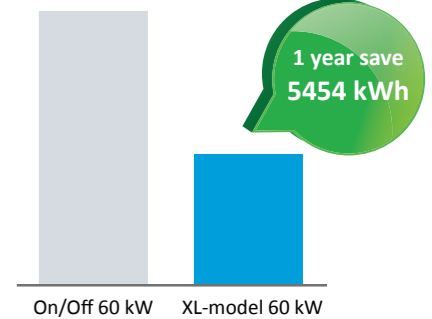


POOL SIZE: 125m<sup>3</sup> - 520m<sup>3</sup>



## ENERGY CONSUMPTION COMPARISON

HEAT PUMP	XL-MODEL 60 kW	ON/OFF HP 60 kW
COP (air 27°C/water 27°C)	10.5 @50% CAPACITY	5
Input power	2.86 kW	12 kW
Heating time (for 1°C)	9.67 hours	4.83 hours
Daily consumption	27.66 kWh	57.96 kWh
Yearly consumption (180 days)	4978.8 kWh	10432.8 kWh



Formula:  $kW \cdot h = T \cdot V (m^3) \cdot 1.16$  250m<sup>3</sup> pool volume  
Above calculation is just a reference when maintaining pool temp for well isolated pool under air 27°C/water 27°C

## MAIN FEATURES:

- ✓ Reverse Cycle Defrosting
- ✓ -10°C ~ 43°C Operation
- ✓ Aluminium-alloy Casing
- ✓ Mitsubishi Twin-Rotary Inverter Compressor
- ✓ EEV Technology (20% higher efficiency than capillary)
- ✓ Twisted Titanium Heat Exchanger (40% higher efficiency)



WiFi Built-in Touch Controller

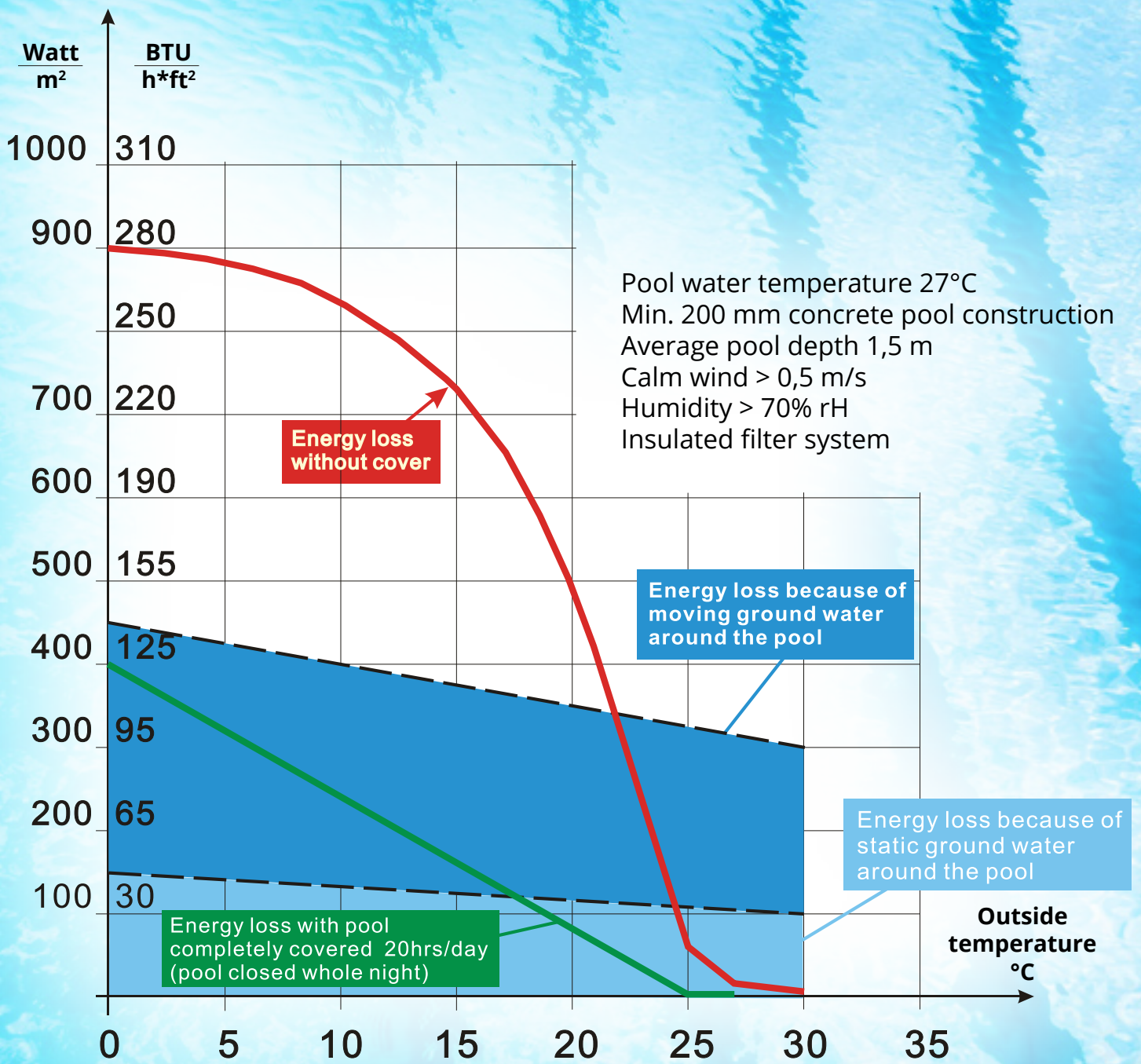
MODEL	XL60	XL115
<b>PERFORMANCE CONDITION: AIR 27°C / WATER 27°C / HUMID. 80%</b>		
Heating capacity (kW)	60,2	115,0
Average C.O.P. at 50% Speed	10,5	10,0
<b>PERFORMANCE CONDITION: AIR 15°C/ WATER 26°C/ HUMID. 70%</b>		
Heating capacity (kW)	40,1	80,8
Average C.O.P. at 50% Speed	7,0	7,0
<b>PERFORMANCE CONDITION: AIR 35°C/ WATER 28°C/ HUMID. 80%</b>		
Cooling capacity (kW)	26,8	53,5
<b>TECHNICAL SPECIFICATIONS</b>		
Advised pool volume (m <sup>3</sup> )	0~12	5~20
Operating air temperature (°C)	-10°C~43°C	
Compressor	DC Inverter Compressor	
Heat exchanger	Twisted Titanium Heat Exchanger	
Fan direction	Vertical	
Power supply	400V/3 Ph/50Hz	
Rated input power (kW)	2.26~8.90	4.68~17.5
Rated input current (A)	3.27~12.9	6.78~25.3
Sound level at 1m (dB)	53.0~61.0	55.0~64.0
Sound level 50% at 1m (dB)	55	58
Sound level at 10m (dB)	33.0~41.0	35.0~44.0
Advised water flux (m <sup>3</sup> /h)	20~25	40~50
Water connection (mm)	75	110
Net dimension LxWxH (mm)	1000x1110x1260	2100x1090x1280
Net Weight (kg)	212	459
Qty per 20'FT / 40'HQ (sets)	8/18	4/9



- ✓ Ideal for above-ground pools, spas and splash pools (up to 40°C heating)
- ✓ Super Silent
- ✓ Plug and Play
- ✓ Easy to Use

MODEL	XXS-3	XXS-4	XXS-6
Advised pool volume (m <sup>3</sup> )	≤ 20	≤ 28	≤ 37
Power Supply	220V~240V/1/50Hz		
<b>HEATING CAPACITY AT AIR 26°, WATER 26° HYGRO 80%</b>			
Heating Capacity (kW)	3,05	4,00	5,60
Power Input (kW)	0,56	0,73	1,03
COP	5,45	5,45	5,43
<b>HEATING CAPACITY AT AIR 15°, WATER 26° HYGRO 70%</b>			
Heating Capacity (kW)	2,51	3,10	4,95
Power Input (kW)	0,55	0,69	1,09
COP	4,53	4,52	4,54
Max Power Input (kW)	0,95	1,28	1,55
Max Current (A)	4,4	5,8	7,0
Refrigerant	R32		
Heat Exchanger	Titanium		
Air Flow Direction	Horizontal		
Water Flow Volume (m <sup>3</sup> /h)	1,5	2,0	3,0
Net Dimensions(L*W*H) (mm)	380*280*350	380*280*350	420*360*436
Package Dimensions(L*W*H) (mm)	440*355*405	440*355*405	480*435*495
Working temperature range (°C)	8~43	8~43	8~43
Noise (dB)	28	29	29
Net Weight (kg)	18	20	24
Gross Weight (kg)	20	22	26





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