HEAT PUMP
HEATERS **ONSEN**
FOR SWIMMING
POOLS

GAS R32
QUICK INSTALLATION

RUSTPROOF
ABS CASING

The pleasure of swimming in a pool in all seasons

5 single-phase models
1 three-phase model

Termal heat pump heaters can be used in small, medium, and large indoor as well as outdoor pools.

They are an effective solution for heating swimming pool water, even in late autumn or during sudden drops in temperature, **thus extending the bathing season**.

Equipped with a titanium heat exchanger and high-efficiency compressor, Termal swimming pool heat pumps guarantee absolute operational reliability, high energy performance and low operating consumption.

Titanium heat exchanger: a guarantee of safety and reliability

All **Termal heat pump heaters** are equipped with a titanium exchanger capable of heating any type of water, irrespective of its origin and the treatment used (chlorine treatment, salt sterilisation, bromine, ozone, etc.) and all systems with extensive disinfection requirements.

The titanium alloy provides maximum protection, guaranteed over time, against corrosion caused by chlorine.

Durable materials: ABS pump body

All units are **encased in a** rust-free **thermoformed ABS outer shell**.

This casing makes it possible to install all products in the open air, without the risk of deterioration caused by atmospheric agents or the need for special maintenance.

Termal

Heat pump heaters for swimming pools **ONSEN**

- New design, ABS plastic casing, rustproof
- R32 refrigerant gas
- 5 single-phase models from 7.76 to 21.41 kW;
  1 three-phase model from 30.05 kW
- **Titanium** heat exchanger
- Operating air temperature -15°C~+43°C

Full DC Inverter technology

The heaters for swimming pools ONSEN is equipped with:

- High efficiency DC Inverter compressor;
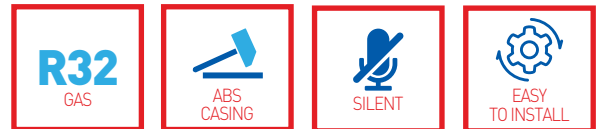- DC Inverter fan motor.

The design of the expulsion grille and the sawtooth fan guarantees an increase in air flow and a low noise level.

INTEGRATED
Wi-Fi

single-phase
TCPNS 701 Z - TCPNS 1001 Z
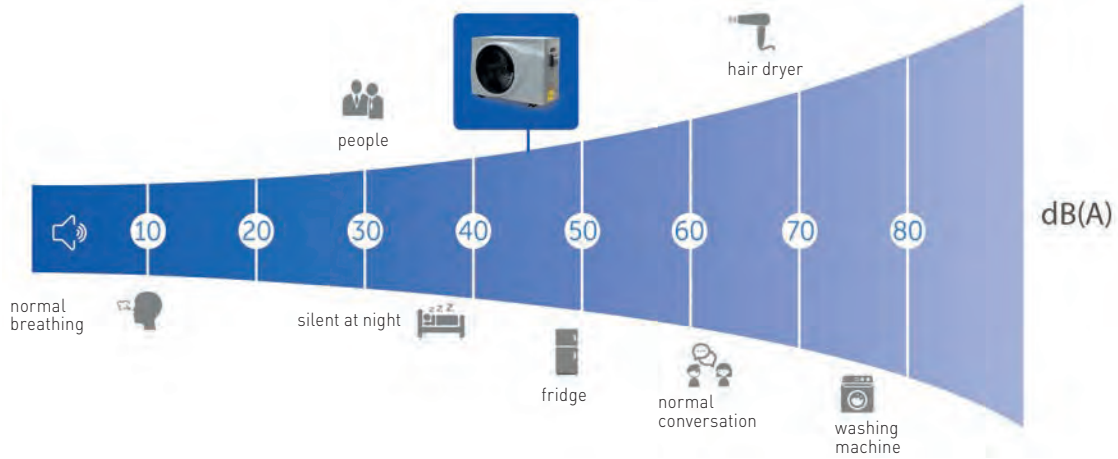TCPNS 1301 Z - TCPNS 1701 Z
TCPNS 2101 Z

three-phase
TCPSS 3001 Z

R32 GAS | ABS CASING | SILENT | EASY TO INSTALL

Model		TCPNS 701 Z	TCPNS 1001 Z	TCPNS 1301 Z	TCPNS 1701 Z	TCPNS 2101 Z	TCPSS 3001 Z
Air heating capacity 26°C, humidity 80%, water 26°C input, 28°C output							
Heating capacity	kW	7.76~1.76	10.55~2.40	13.61~3.09	17.15~3.88	21.41~4.85	30.05~6.84
Power consumption	kW	1.12~0.11	1.52~0.15	1.95~0.19	2.46~0.24	3.08~0.30	4.30~0.42
COP		15.75~6.94	15.84~6.95	16.12~6.98	15.96~6.98	15.95~6.96	16.14~6.99
Air heating capacity 15°C, humidity 70%, water 26°C input, 28°C output							
Heating capacity	kW	5.76~1.30	7.85~1.78	10.12~2.29	12.78~2.89	15.91~3.59	22.14~4.99
Power consumption	kW	1.16~0.17	1.58~0.23	2.03~0.30	2.57~0.38	3.20~0.47	4.44~0.65
COP		7.57~4.96	7.59~4.97	7.64~4.99	7.63~4.98	7.59~4.97	7.63~4.99
Cooling capacity air 35°C, water 29°C input, 27°C output							
Cooling capacity	kW	4.28~1.06	5.92~1.48	7.25~1.82	9.47~2.35	11.58~2.96	15.89~3.93
Power consumption	kW	1.15~0.16	1.57~0.22	1.89~0.26	2.51~0.34	3.07~0.43	4.17~0.56
EER		6.61~3.73	6.74~3.76	6.95~3.83	6.89~3.78	6.87~3.77	6.98~3.81
Power supply		220~240V / 1/ 50 Hz					380~415V / 3/ 50 Hz
Rated input power	kW	1.20	1.60	2.10	2.60	3.20	4.40
Rated current	A	5.40	7.30	9.40	11.70	14.60	7.90
Compressor		Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
Refrigerant		R32	R32	R32	R32	R32	R32
Heat exchanger		Titanium	Titanium	Titanium	Titanium	Titanium	Titanium
Air flow direction		Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
Water flow volume	m³/h	2.5	3.5	4.5	5.5	6.5	9
Type of defrosting		Via 4-way valve	Via 4-way valve	Via 4-way valve	Via 4-way valve	Via 4-way valve	Via 4-way valve
Operating temperature range	°C	-15~43	-15~43	-15~43	-15~43	-15~43	-15~43
Noise level	dB(A)	≤ 43	≤ 43	≤ 46	≤ 46	≤ 46	≤ 48
Housing material		ABS Plastic	ABS Plastic	ABS Plastic	ABS Plastic	ABS Plastic	ABS Plastic
Colour		Brown					
Net dimensions (WxDxH)	mm	860x320x592	860x320x592	920x360x640	920x360x640	920x360x640	1080x370x730
Packaging dimensions (WxDxH)	mm	940x400x710	940x400x710	990x430x760	990x430x760	990x430x760	1140x440x860
Net weight	kg	40	42	51	54	58	86
Gross weight	kg	51	53	62	65	69	97
Level of water resistance		IPX4	IPX4	IPX4	IPX4	IPX4	IPX4

iTermal

Silence

normal breathing · normal breathing · people · hair dryer · silent at night · fridge · normal conversation · washing machine · dB(A) · 10 20 30 40 50 60 70 80

Applications

HEATING SEQUENCE

ventilation · compressor · condenser · heated swimming pool water · POOL · outside air · expansion valve · evaporator · filter · pump · swimming pool water

CHLORINATOR · POOL · ONSEN · WATER PUMP · FILTER

Termal