HEAT PUMP HEATERS **ONSEN** FOR SWIMMING POOLS

Indoor units	Range
 **TCPHNB 1201 Z** Single-phase	✓ 12.50 kW
 **TCPHNB 1501 Z** Single-phase	✓ 15.60 kW
 **TCPHSB 3101 Z** Three-phase	✓ 31.50 kW

Indoor units	Range
 **TCPVSB 4001 Z** Three-phase	✓ 40.00 kW
 **TCPVSB 4601 Z** Three-phase	✓ 46.00 kW

AIR CONDITIONER WITHOUT OUTDOOR UNIT

Only in

Indoor units	2.33 kW
 **TTWIS 311 Z**	✓

HEAT PUMP HEATERS **ONSEN** FOR SWIMMING POOLS

GAS R32
QUICK INSTALLATION

RUSTPROOF ABS CASING

2 single-phase & 1 three-phase models

2 three-phase models

The pleasure of swimming in a pool in all seasons

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.

Heat pump heaters for swimming pools **ONSEN** in **R32**

INTEGRATED Wi-Fi

- New design, ABS plastic casing, rustproof
- Refrigerant gas R32
- 2 single-phase models from 12.50 to 15.60 kW; 1 three-phase model from 31.66 kW
- Titanium heat exchanger
- Operating air temperature -10°C~+43°C

single-phase
TCPHNB 1201 Z
TCPHNB 1501 Z

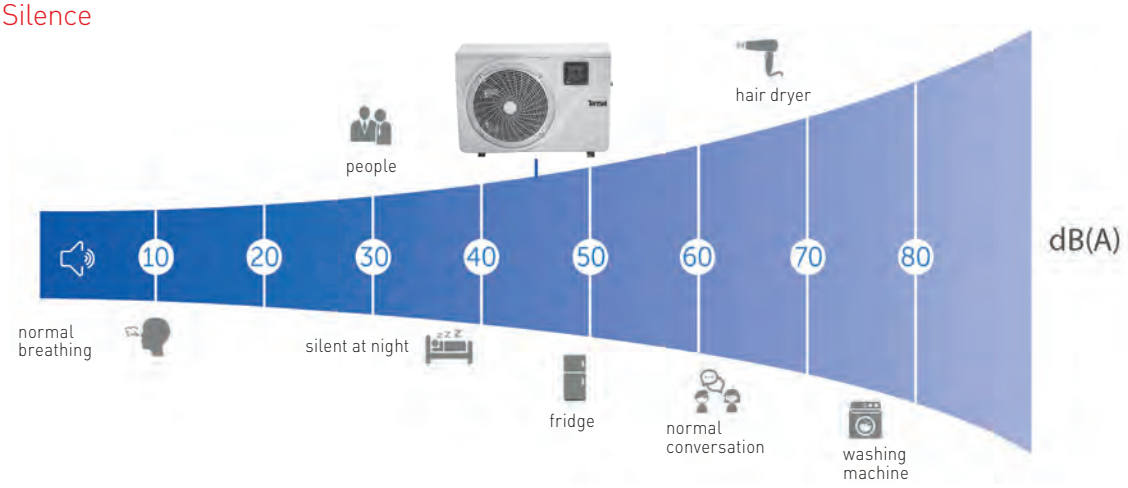
three-phase
TCPHSB 3101 Z

R32 | ABS CASING | SILENT | EASY TO INSTALL

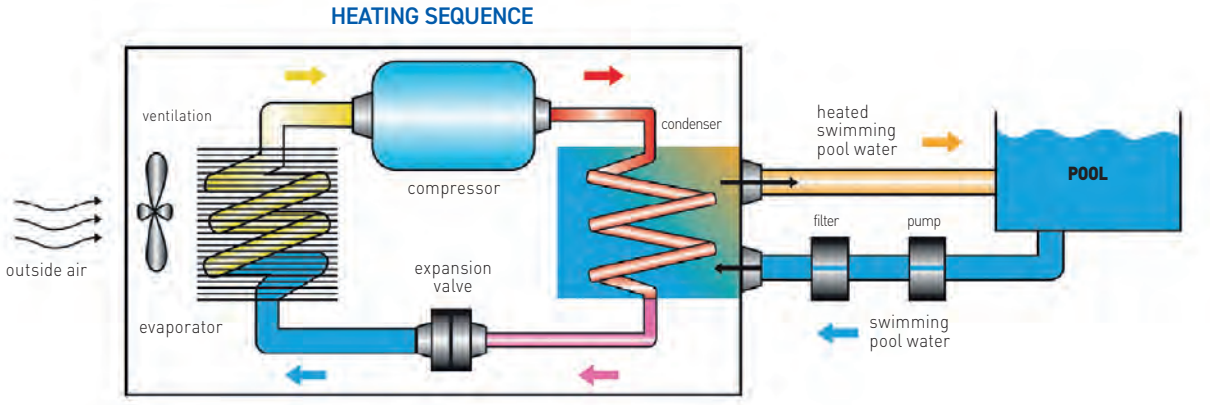
Model		TCPHNB 1201 Z	TCPHNB 1501 Z	TCPHSB 3101 Z
Estimated swimming pool volume	m³	35-50	50-70	90-120
Operating range	°C	-10~43	-10~43	-10~43
Conditions - Air 26°C DB/24.3°C WB - Water 26°C in / 28°C out				
Heating capacity	kW	12.50~2.89	15.60~3.61	31.66~6.97
Power consumption	kW	1.82~0.216	2.25~0.27	4.61~0.523
Current absorbed	A	7.99~0.97	9.88~1.21	8.24~0.93
COP	W/W	13.38~6.87	13.37~6.93	13.33~6.87
Conditions - Air 15°C DB/12°C WB - Water 26°C in / 28°C out				
Heating capacity	kW	9.37~2.17	12.48~2.88	23.63~5.35
Power consumption	kW	1.90~0.30	2.53~0.40	4.81~0.746
Current absorbed	A	8.34~1.34	11.11~1.79	8.60~1.33
COP	W/W	7.23~4.93	7.24~4.93	7.17~4.91
Conditions - Air 35°C DB - Water 27°C in / 25°C out				
Cooling capacity	kW	5.00~2.80	6.80~4.20	15.76~5.94
Power consumption	kW	1.43~0.598	1.94~0.887	4.64~1.25
Current absorbed	A	6.28~2.68	8.52~3.98	8.29~2.23
EER	W/W	4.68~3.50	4.74~3.51	4.74~3.40
Power supply	V/Ph/Hz	220-240/1/50		380-415V/3/50
Max current absorbed	A	16.40	17.70	11.60
Water capacity	m³/h	4	5.3	10.5
Pressure drops	kPa	6.91	10.4	15.71
Refrigerant[1]	type (GWP)	R32 (675)		
Quantity (tons CO2)	kg (t)	0.55 (0.37)	0.75 (0.51)	2 (1.35)
Dimensions LxDxH	mm	930x340x650	930x340x650	1220x440x850
Net weight	kg	43	45	108
Sound pressure at 1 m	dB(A)	40~48	41~50	<51
Compressor	type	Rotary		
Evaporator	type	Finned copper pipes		
Protection degree		IPX4	IPX4	IPX4

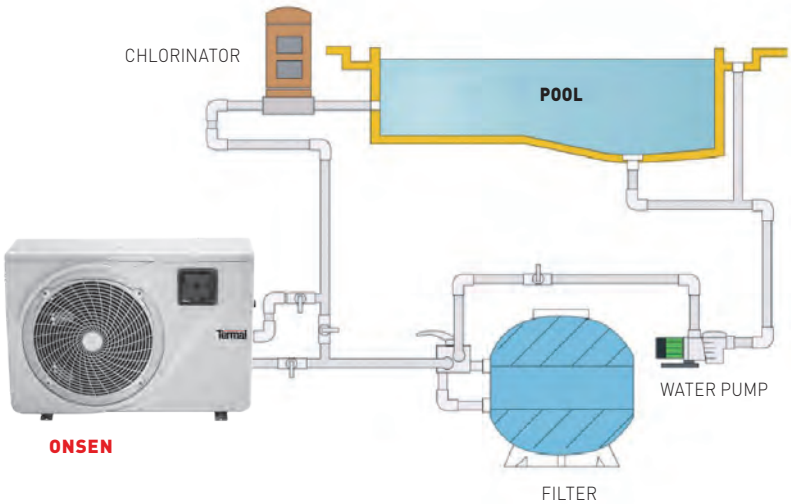
1. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. if 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times less than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

Silence



Applications





Heat pump heaters for swimming pools **ONSEN** in **R32**

INTEGRATED Wi-Fi

- New design, ABS plastic casing, rustproof
- Refrigerant gas R32
- 2 three-phase models from 40.30 to 45.65 kW;
- Titanium heat exchanger
- Operating air temperature -10°C~+43°C

three-phase
TCPVSB 4001 Z
TCPVSB 4601 Z

R32

ABS CASING

SILENT

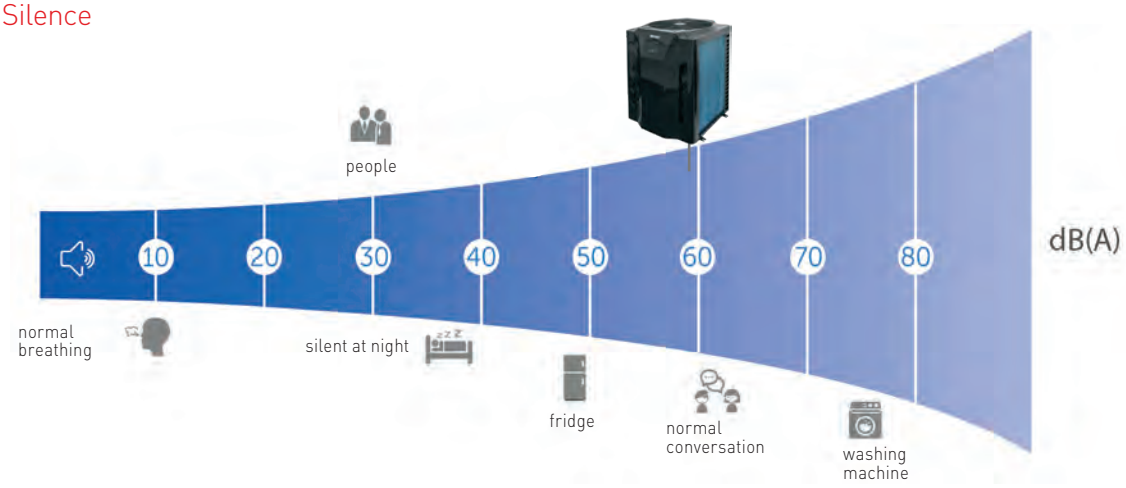
EASY TO INSTALL

*** Distributor note**
The data shown may be subject to change. For updated information, please consult the latest version of the catalogue available on the website www.mitsubishi-termal.it.

Model		TCPVSB 4001 Z*	TCPVSB 4601 Z*
Estimated swimming pool volume	m³	120~160	120~160
Operating range	°C	-10~43	-10~43
Conditions - Air 26°C DB/24.3°C WB - Water 26°C in / 28°C out			
Heating capacity	kW	40.30~8.79	45.65~8.79
Power consumption	kW	6.14~0.77	7.08~0.78
COP	W/W	11.47~6.56	11.27~6.44
Conditions - Air 15°C DB/12°C WB - Water 26°C in / 28°C out			
Heating capacity	kW	30.06~6.31	35.02~7.33
Power consumption	kW	6.44~0.939	7.40~1.10
COP	W/W	6.72~4.66	6.66~4.73
Conditions - Air 35°C DB - Water 27°C in / 25°C out			
Cooling capacity	kW	19.54~8.51	22.76~7.36
Power consumption	kW	5.76~1.76	6.82~1.56
EER	W/W	4.84~3.39	4.72~3.33
Power supply	V/Ph/Hz	380-415V/3/50	
Max current absorbed	A	14.66	16.22
Water capacity	m³/h	14.5	15.1
Pressure drops	kPa	37.77	35.31
Refrigerant[1]	type (GWP)	R32 (675)	
Quantity (tons CO2)	kg (t)	2.7 (1.82)	3.0 (2.03)
Dimensions LxDxH	mm	659x732x913	
Net weight	kg	95	105
Sound pressure at 1 m	dB(A)	58	58
Compressor	type	Rotary	
Evaporator	type	Finned copper pipes	
Protection degree		IPX4	IPX4

1. Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. if 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times less than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

Silence



Applications