

HEAT PUMPS DURATECH®




	Model	DURA-7	DURA-10	DURA-13	DURA-18	DURA-22	DURA-22T	DURA-26T
Heating capacity A25/W25	kW	7	10	13	18	22	22	26
	BTU/h	24000	34000	44500	61500	75000	75000	89000
Heating capacity A15/W25	kW	6,4	9,1	11,8	16,5	20,2	20,2	24,2
	BTU/h	22000	31000	40500	56500	69000	69000	83000
Power Input	kW	1,3	1,82	2,36	3,3	4,1	4,1	4,8
Maximum power Input	kW	1,45	2,02	2,63	3,6	4,45	4,45	5,2
Efficiency A25/W25	C.O.P.	5,5	5,5	5,5	5,5	5,5	5,5	5,5
Maximum volume ¹	m3	30	40	60	80	90	90	120
Nominal Current	A	6,6	9,2	12,1	16,5	20,9	7,1	8,9
Maximum Current	A	6,6	9,3	13,4	18,7	21	7,9	9,5
Peak Current	A	24	35	45	61,5	75,5	35,8	43,2
Power supply	V/Ph/Hz	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	220-240/1/50	380/3/50	380/3/50
Compressor type		Rotary	Rotary	Rotary	Scroll	Scroll	Scroll	Scroll
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A
Amount of refrigerant	Kg	0,9	1,2	1,9	2,0	2,2	2,2	2,4
Pressure gauge		Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fan power	W	25	30	60	200	200	200	200
Rotational frequency of the fan	RPM	950/750	950/750	950/750	830/680	830/680	830/680	830/680
Air flow	m3/h	1800/1650	2100/1800	2300/2000	3200/2700	4500/3800	4500/3800	4500/3800
Fan direction		Horizontal	Horizontal	Horizontal	Vertical	Vertical	Vertical	Vertical
Noise	dB (A)	54	54	54	55	57	57	57
Water Connection	mm	50	50	50	50	50	50	50
Nominal Water Flow	m3/h	3-5	5-7	6-8	8-10	10-12	10-12	11-13
Max. Water Pressure Drop	kPa	12	15	15	16	16	16	16
Net Dimensions (L/W/H)	mm	950/360/580	1010/370/615	1130/470/680	660/660/860	660/660/960	660/660/960	660/660/960
Shipping Dimensions (L/W/H)	mm	1060/380/600	1140/400/680	1185/485/780	700/740/1010	700/740/1110	700/740/1110	700/740/1110
Net Weight / Shipping Weight	kg	54/57	63/67	99/104	108/120	111/123	111/123	112/125

Measuring conditions: Outdoor air temp: 25°C , Inflowing water temp: 25°C, rel. humidity: 65%

¹ Maximum volume for an entirely insulated pool, with cover, free from wind and exposed to the sun.

Your distributor



HEAT PUMPS DURATECH[®]

THE IDEAL SOLUTION ...
for heating your swimming pool, jacuzzi or spa.

dura



duratech[®]

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**THE IDEAL SOLUTION ...
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Highly efficient and economical

The energy is collected from the air outside and transferred to the pool water. For each kW consumed by the DURATECH® heat pump, 5 kW or more can be returned to the pool.

Use

The DURATECH® heat pump must be installed outside. It will **heat the pool from April to October** and will even work with outside temperatures as low as **-5°C**.

Environment

- DURATECH® heat pumps are **less harmful to the environment** because more than 80% of the energy produced is collected from the outside air and therefore purely natural.
- Also the gas used, R410a, has **no harmful effect on the ozone layer**.

Constructed for durability and longevity

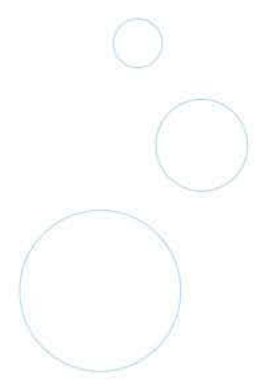
Using advanced and **high quality materials** like PVC and "Titanium®" for the heat exchanger means it can resist to erosion from chlorine in the water. Also, the "Titanium®" exchanger is oversized to improve efficiency.

Easy installation

The unit is intelligently designed and remarkably compact for **easy installation**. Example : the integrated pressure switch senses the water pressure and automatically starts the heater when the pool pump starts and stops when the pump shuts off.



DURA-18/22/22T/26T



DURATECH® heat pumps can save you up to 80% in operating costs. Whether you just want to extend your swimming season or swim all season in a warm comfortable pool, the DURATECH® heat pump can pay for itself in just a few years with the operation costs savings.



Advanced control

The integrated microprocessor monitors all the sensors and controls the device without any intervention of the user. Electronic display and control with **easy operation is standard.**

Running quietly

The use of a high efficient, low sound rotary or scroll compressor, a low noise two speed fan and an oversized heat exchanger, makes the unit **extremely quiet** in operation.

Example : The DURA-10 at 10m distance produces only 32 db(A).

How does it work ?

DURATECH® heat pumps utilize the sun's free heat by collecting and absorbing energy from the outside air. This energy is then transferred to the pool water.

Your existing pool pump circulates the water through the heater and warms the pool. The unit contains a fan that draws in outside air and directs it over the surface of the EVAPORATOR (energy collector). The liquid refrigerant within the EVAPORATOR coil absorbs the heat from the outside air and the refrigerant becomes a gas. The warm gas passes through the compressor where it is compressed to form a very hot gas, which then passes through the CONDENSOR (water heat exchanger) . It is here that the heat exchange occurs as the hot gas releases the heat to the cooler swimming pool water circulating through the coil. The pool water becomes warmer and the hot gas is cooling down as it flows through the CONDENSOR coil, returns to its liquid form and, after passing through the expansion valve, the whole process begins again.

