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BAJADA NEW ENERGY LTD

Bulebel Industrial Estate, Żejtun

NOVOTHERM HEATPUMP 160 & 200 • R290

Aerothermal air-to-water heat pumps for domestic hot water up to 65 °C, running on natural refrigerant R290 (GWP 3) with a Duplex 2205 stainless steel cylinder.

R290 GWP 3

NATURAL REFRIGERANT

65 °C

DHW IN HEATING MODE

A++

ENERGY CLASS¹

Wi-Fi + Modbus

CONNECTIVITY



NOVOTHERM HEATPUMP • MONOBLOC R290

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TWO MODELS, ONE PLATFORM

HEATPUMP 160

WALL-MOUNTED

Compact wall unit in a **60×60 cm footprint** (Ø530 mm) — frees the floor entirely and slots into utility rooms, garages and service shafts.

Nominal capacity 152 L

Dimensions (Ø / height) Ø530 / 1531 mm

Useful water at 40 °C 192 L

Duct connections Ø125 / Ø150

Sound pressure at 2 m 34 dB(A)

HEATPUMP 200

FLOOR-STANDING

Floor-standing unit with **solar-coil-ready versions** — the larger draw-off for family households and light commercial use.

Nominal capacity (I / IX) 200 / 195 L

Dimensions (Ø / height) Ø600 / 1695 mm

Useful water at 40 °C 281 L

Duct connections Ø160 / Ø190 / Ø200

Sound pressure at 2 m 36 dB(A)

WHY NOVOTHERM R290

● Duplex 2205 cylinder

High-grade duplex stainless steel tank with no sacrificial anode to replace — built for Malta's hard water with minimal upkeep.

● Natural refrigerant

R290 propane with a GWP of just 3 cuts the system's climate impact and reaches higher water temperatures than conventional gases.

● Hot water to 65 °C

Heat-pump-only operation up to 60 °C and 65 °C with backup — covering anti-legionella cycles without relying on the element.

● Smart control

Touchscreen controller with timer, disinfection, holiday and solar functions, plus app control over Wi-Fi from anywhere.

● Modbus on board

Native Modbus protocol for BMS and automation integration — ready for residential, hospitality and commercial projects.

● Serviced locally

Supplied, installed and maintained by Bajada New Energy's own technical team, with parts and aftersales handled in Malta.

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YEAR WARRANTY

The Duplex 2205 stainless steel cylinder is covered by a 7-year warranty as standard — **upgradeable to 10 years** with a Bajada New Energy maintenance agreement.

FLEXIBLE INSTALLATION

NO DUCTING

For plant rooms of 20 m² or more with adequate ventilation — the simplest setup, using the room's own air.

INLET + OUTLET DUCTS

Ducted intake and exhaust for smaller rooms, keeping noise and cool discharge air outside the living space.

EXHAUST DUCT ONLY

For ventilated areas where only the cooled air needs to be carried away from the room.

TECHNICAL DATA	UNIT	HEATPUMP 160	HEATPUMP 200
GENERAL			
Type of equipment	—	Air/water heat pump for domestic hot water	
Application	—	Wall-mounted	Floor-standing
Nominal capacity	L	152	200 / 195 ⁵
Empty weight	kg	53	60 / 62 ⁵
Dimensions (Ø / height)	mm	Ø530 / 1531	Ø600 / 1695
Cylinder material	—	Duplex 2205 stainless steel	Duplex 2205 stainless steel
Polyurethane insulation	mm	50	50
Refrigerant fluid / charge	— / kg	R290 / 0,150	R290
ELECTRICAL			
Power supply	—	220-240 Vac / single-phase / 50 Hz	
Power consumed, heat pump (avg / max)	W	254 / 450	348 / 720
Electric backup power input	W	1500	1500
Thermal power output, HP (avg / max)	W	835 / 1320	1400 / 2100
Maximum consumption current	A	2,3 + 6,8 (with backup)	—
PERFORMANCE			
Max DHW temperature (heat pump / backup)	°C	60 / 65	60 / 65
Consumption profile	—	L	L
COP	—	3,20 ¹ 3,63 ² 3,91 ³	3,22 ¹ 3,65 ² 3,93 ³
Energy efficiency class	—	A ⁺ ¹ A ⁺⁺ ² A ⁺⁺⁺ ³	A ⁺⁺ ¹ A ⁺⁺ ² A ⁺⁺⁺ ³
Energy efficiency rating	%	132 ¹ 150 ² 162 ³	133 ¹ 151 ² 164 ³
Heating time	hh:mm	08:25 ¹ 07:15 ² 06:16 ³	07:21 ¹ 05:57 ² 05:16 ³
Annual energy consumption	kWh/yr	774 ¹ 679 ² 633 ³	771 ¹ 676 ² 626 ³
Useful water quantity at 40 °C	L	192	281
Ambient temperature limits	°C	-5 / +40	-5 / +40
HYDRAULIC & ACOUSTIC			
Max working pressure / test pressure	bar	7 / 10	—
Thermal loss	kWh/24h	0,95	—
Protection index	—	IPX1	—
Indoor sound level ⁴	dB(A)	49 (pressure)	53 (power)
Sound pressure at 2 m	dB(A)	34	36
Air flow	m ³ /h	195	450
Static pressure of fan	Pa	60	80
Max. duct / pipe length	m	20	36
CONNECTIONS			
Cold water inlet / hot water outlet	—	3/4" M / 3/4" M	G 3/4" M / G 3/4" M
Solar coil inlet / outlet	—	—	G 1" M / G 1" M
Recirculation / PT valve	—	—	G 1/2" F / G 1/2" F
Duct connection diameters	mm	Ø125 / Ø150	Ø160 / Ø190 / Ø200

¹ A7/W10-54 ² A14/W10-54 ³ A20/W10-54 — in accordance with EN 16147:2017 and Commission Delegated Regulation (EU) No. 812/2013. ⁴ In accordance with EN 12102; values stated as sound pressure (160) and sound power (200) per the respective test reports. ⁵ I / IX versions. — Data not published for this model; available on request.

7-10 yr

Cylinder warranty: 7 years as standard, upgradeable to 10 years with a Bajada New Energy maintenance agreement. Duplex 2205 tank — no anode, wrap-around condenser coil, serviced by our in-house team across Malta and Gozo.

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01 SCOPE OF WORK

- a. Supply and installation of the heat pump unit as per the agreed offer.
- b. Installation may be performed inside or outside a covered area.
- c. Delivery to the ground floor is included. Any use of a crane or lifting equipment is the responsibility of the client.

02 CLIENT RESPONSIBILITIES

- a. **Expansion vessel:** the client must ensure installation of an expansion vessel prior to the heat pump:
 - 8 L vessel for 160 L systems
 - 12 L vessel for 200 L systems
 - Larger installations to be sized accordingly
- b. **Connections:**
 - Hot and cold-water connections must be provided within 1 metre of the heat pump location.
 - The client must provide the electrical supply connection.
 - The client must provide a condensate drain connection.
 - An extract vent to a circular penetration must be provided within 1 metre.

03 WORKING HOURS

Standard installation is carried out during normal working hours: 07:30 – 15:30, Monday to Friday (excluding public holidays). Any work required outside normal working hours due to delays caused by other trades, site conditions, or circumstances beyond our control will incur additional charges.

04 EXCLUSIONS

The following items are not included in the scope of works unless specifically agreed in writing:

- Gypsum or other builders' works
- Cable trays or additional electrical supply points
- Dismantling or assembly of works unrelated to the existing heat pump / water heater units
- Removal of objects interfering with installation progress
- Crane services
- Any "odd jobs" not specifically mentioned in the offer

05 PAYMENT TERMS

- a. A 50% deposit is required upon order confirmation.
- b. The balance is due prior to installation.

06 GENERAL CONDITIONS

- a. Any delays, additional works, or requirements arising from circumstances beyond our control will be charged separately.
- b. The client must ensure site readiness and compliance with all above-mentioned requirements prior to installation.

07 WARRANTY

The cylinder is covered by a 7-year warranty as standard, upgradeable to 10 years with a Bajada New Energy maintenance agreement.

Acceptance — By confirming the order, the client accepts these terms and conditions in full.