

**From:** Tom Shiels  
**Sent:** Tuesday, February 13, 2024 1:07 PM  
**To:** Planning  
**Cc:** James Roberts  
**Subject:** Re: NYM/2024/0102, Hill Top, Clack Lane, Osmotherley

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Good afternoon,

Many thanks for the letter confirming that the application is valid.

Here's a link for the requested heat pump spec:

<https://library.mitsubishielectric.co.uk/pdf/book/HeatingandVentilationCatalogue2022#page-14>

Please don't hesitate to let me know if you require anything further.

I'd be grateful if you could let me know Megan O'Mara's email address.

Kind regards,

Tom



# PUZ-HWM140(V/Y)HA

## Monobloc Standalone Air Source Heat Pumps

Our range of Zubadan chassis Ecodan monobloc air source heat pumps are suitable for properties with large space heating requirements and are available in single or three phase 14kW sizes.

With its advanced flash injection technology, this product provides a solution to low ambient capacity issues common to standard systems and is a viable solution for all types of domestic requirements that the UK housing market demands.

### Key Features

- Self-contained unit, only requiring water and electric connections
- No need for gas supply, flues or ventilation
- Low maintenance and quiet operation
- Operates with outside temperatures as low as -28°C
- Optimised low ambient defrost control and operation down to -15°C
- Hybrid function, for use with conventional boilers
- Energy monitoring as standard
- Multiple unit cascade function

NYMNP A

13/02/2024



OUTDOOR UNIT		PUZ-HWM140VHA(-BS)	PUZ-HWM140YHA(-BS)
HEAT PUMP SPACE HEATER - 55°C	ErP Rating	A++	A++
	$\eta_L$	3.35	1.31
	SCoP	3.34	3.35
HEAT PUMP SPACE HEATER - 35°C	ErP Rating	A+++	A+++
	$\eta_L$	1.76	1.76
	SCoP	4.48	4.45
HEAT PUMP COMBINATION HEATER - Large Profile <sup>1)</sup>	ErP Rating	A+	A+
	$\eta_{wh}$	1.30	1.30
	Capacity (kW)	14.0	14.0
HEATING <sup>2)</sup> (A-7/W35)	Power Input (kW)	5.72	5.72
	COP	2.45	2.45
	OPERATING AMBIENT TEMPERATURE (°C BS)	-28 - +35	-28 - +35
SOUND DATA <sup>3)</sup>	Pressure Level at 1m (dBA)	53	53
	Power Level (dBA) <sup>4)</sup>	67	67
WATER DATA	Pipework Size (mm)	28	28
	Flow Rate (l/min)	40	40
	Water Pressure Drop (kPa)	20	20
DIMENSIONS (mm)	Width	1020	1020
	Depth	330+30 <sup>5)</sup>	330+30 <sup>5)</sup>
	Height	1350	1360
WEIGHT (kg)		132	143
ELECTRICAL DATA	Electrical Supply	220-240v, 50Hz	380-415v, 50Hz
	Phase	Single	3
	Nominal Running Current (MAX) (A) <sup>6)</sup>	xx [35]	xx [13]
	Fuse Rating - MCB Sizes (A) <sup>6)</sup>	40	16
REFRIGERANT CHARGE (kg) / CO <sub>2</sub> EQUIVALENT (t)	R32 (GWP 675)	3.3 / 2.23	3.3 / 2.23

1) ErP Rating with EPT200. ErP class 2 under normal heating conditions at outdoor temp: 7°C BS / 3°C BS. outdoor water temp 35°C, inlet water temp 50°C.  
 2) Under normal heating conditions at outdoor temp: 7°C BS / 6°C BS. outdoor water temp 35°C, inlet water temp 50°C, as tested to BS EN 14511.  
 3) Sound power level tested to BS EN 12102. 4) Under normal heating conditions at outdoor temp 7°C, outdoor water temp 35°C.  
 5) MCB Class R5 (B) 0000002 5.05 (1000) 2. 7) Cable  
 6) The outdoor unit has a energy label by (ErP) class 2 with a label in every air flow.



Model number: PUZ-HWM140VHA  
 Product Type: Heat Pump  
 Product Reference: PUZ-HWM140VHA