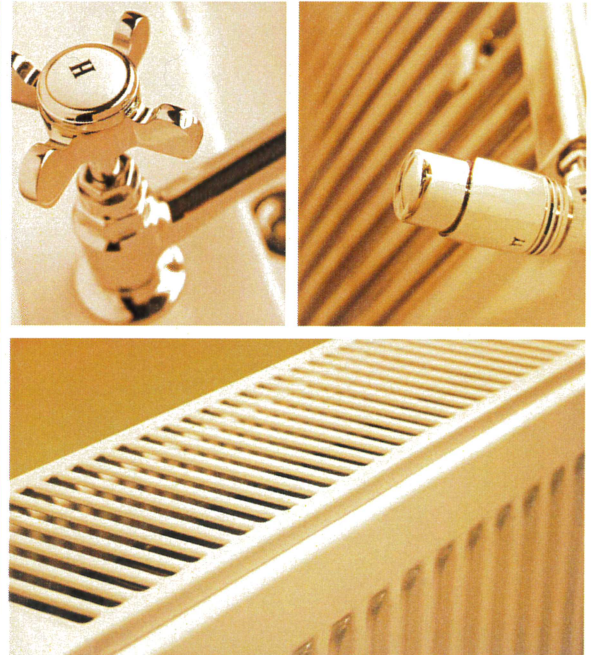


Heating

Product Information

PUHZ-(H)W50-140VHA(2)/YHA2(-BS)
Ecodan Monobloc Air Source Heat Pumps

Making a
World of
Difference



Designed to meet
the demands of
today's heating
needs

Our range of Ecodan monobloc air source heat pumps includes 5, 8.5, 11.2 and 14kW sizes. Now with the ability to cascade up to six units of the same output, Ecodan monobloc systems offer a capacity range from 5 through to 84kW. Designed to suit a wide number of applications, these models offer a viable solution for the varying requirements that domestic and small commercial applications demand.

Key Features

- Self-contained unit, only requiring water and electric connections
- No need for gas supply, flues or ventilation
- Single phase power supply with a low starting current (3 phase available for 14kW)
- Low maintenance and quiet operation
- Operates with outside temperatures as low as -25°C
- Multiple unit connection
- Hybrid function, for use with conventional boilers
- 2-zone energy efficient space heating control
- Available as a standalone, packaged or semi packaged system
- Energy monitoring as standard
- Coastal protection models available (-BS)

Application Examples

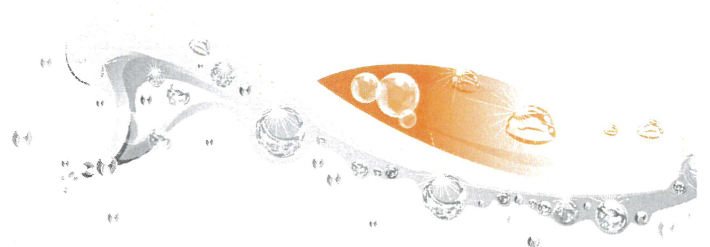
- The vast majority of UK homes
- Small Retail Outlets
- Dental / Doctor's Surgeries
- Public Sector / Commercial Buildings



Certificate Number: MCS 110533
Product Type: Heat Pump
Product Reference: PUHZ-W50VHA(2) / PUHZ-W50VHA(2)-BS
Product Reference: PUHZ-W50VHA(2) / PUHZ-W50VHA(2)-BS



Air Conditioning | Heating
Ventilation | Controls



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Renewable Heating Technology

Heating

Product Information

PUHZ-(H)W50-140VHA(2)/YHA2(-BS) Ecodan Monobloc Air Source Heat Pumps

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2 NO.

OUTDOOR UNIT		PUHZ-W50VHA2(-BS)	PUHZ-W85VHA2(-BS)	PUHZ-W112VHA(-BS)	PUHZ-HW140VHA2(-BS)	PUHZ-HW140YHA2(-BS)
HEAT PUMP SPACE HEATER - 55°C	ErP Rating	A++	A++	A++	A++	A++
	$\eta_{s,h}$	127%	128%	125%	126%	126%
	SCOP	3.17	3.18	3.11	3.12	3.12
HEAT PUMP SPACE HEATER - 35°C	ErP Rating	A++	A++	A++	A++	A++
	$\eta_{s,h}$	162%	162%	164%	157%	157%
	SCOP	4.03	4.01	4.06	3.87	3.87
HEAT PUMP COMBINATION HEATER - Large Profile ¹	ErP Rating	A	A	A	A	A
	$\eta_{s,h}$	99%	97%	100%	96%	96%
	Capacity (kW)	4.8	8.3	11.0	14.0	14.0
HEATING ² (A-3/W35)	Power Input (kW)	1.63	2.96	3.65	4.81	4.81
	COP	2.95	2.80	3.01	2.91	2.91
OPERATING AMBIENT TEMPERATURE (°C DB)		-15 ~ +35°C	-20 ~ +35°C	-20 ~ +35°C	-25 ~ +35°C	-25 ~ +35°C
SOUND PRESSURE LEVEL AT 1M (dBA) ^{3,4}		45	48	53	53	53
LOW NOISE MODE (dBA) ³		40	42	46	46	46
WATER DATA	Pipework Size (mm)	22	22	28	28	28
	Flow Rate (l/min)	14.3	25.8	32.1	40.1	40.1
	Water Pressure Drop (kPa)	12	13.5	6.3	9	9
DIMENSIONS (mm) ⁷	Width	950	950	1020	1020	1020
	Depth	330+30 ⁵	330+30 ⁵	330+30 ⁵	330+30 ⁵	330+30 ⁵
	Height	740	943	1350	1350	1350
WEIGHT (kg)		64	77	133	134	148
ELECTRICAL DATA	Electrical Supply	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	380-415v, 50Hz
	Phase	Single	Single	Single	Single	3
	Nominal Running Current [MAX] (A)	5.4 [13]	10.3 [23]	11.2 [29.5]	14.9 [35]	5.1 [13]
	Fuse Rating - MCB Sizes (A) ⁶	16	25	32	40	16

¹ Combination with EHPT20X-MH-CW Cylinder

² Under normal heating conditions at outdoor temp. -3°CDB / -4°CWB, outlet water temp 35°C, inlet water temp 30°C.

³ Under normal heating conditions at outdoor temp. 7°CDB / 6°CWB, outlet water temp 35°C, inlet water temp 30°C as tested to BS EN14511.

⁴ Sound power level of the PUHZ-W50VHA2 is 61 dBA, PUHZ-W85VHA2 is 62.5 dBA, PUHZ-W112VHA is 65 dBA, PUHZ-HW140VHA2 is 65.5 dBA. PUHZ-HW140YHA2 is 67.5 dBA. Tested to BS EN12102.

⁵ Grille

⁶ MCB Sizes BS EN60898-2 & BS EN60947-2.

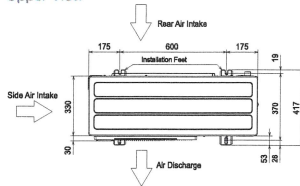
⁷ Row Temperature Controller (RTC) for standalone systems PAC-IF62B-E Dimensions WxDxH (mm) - 520x150x450

$\eta_{s,h}$ is the seasonal space heating energy efficiency (SSHEE) $\eta_{w,h}$ is the water heating energy efficiency

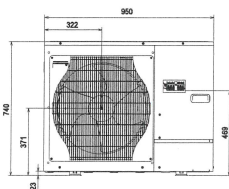
DIMENSIONS

PUHZ-W50VHA2(-BS)

Upper View

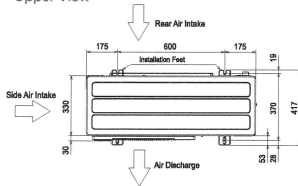


Front View

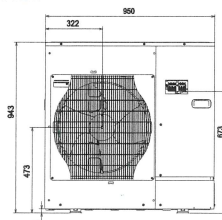


PUHZ-W85VHA2(-BS)

Upper View

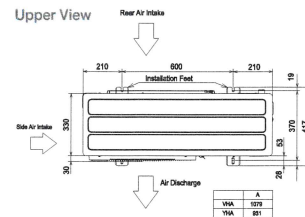


Front View

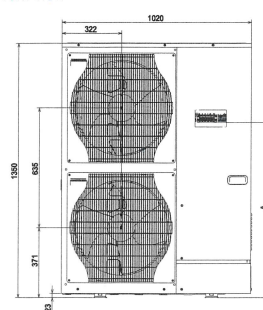


PUHZ-(H)W112-140VHA(2) / YHA2(-BS)

Upper View



Front View



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Effective as of August 2016 SAP No. 282526

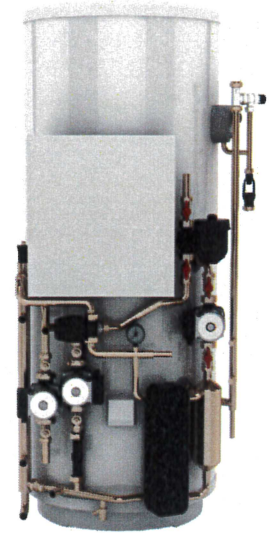
Heating

Product Information

EHPT15-30X-UKHCW
FTC5 Pre-plumbed Standard Cylinders
for Ecodan Monobloc Units

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The pre-plumbed standard cylinder comes complete with integrated hydraulic components and advanced controls.

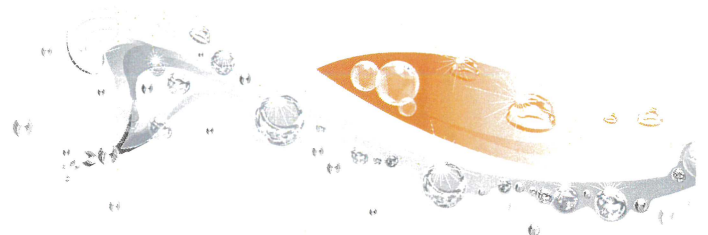
Designed to integrate with the Ecodan monobloc air source heat pump range, the standard cylinder provides improved performance and faster heat up times through the use of plate heat exchanger technology. Fast commissioning via an SD card and energy monitoring functions are now included.

Key Features

- Optional 2-zone energy efficient space heating control
- Pre-plumbed and wired for faster installation
- Hybrid function, for use with conventional boilers
- Energy monitoring as standard



Cooling | Heating | Ventilation | Controls



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Renewable Heating Technology

ADVANCED CONTROLLER – WITH ENERGY MONITORING

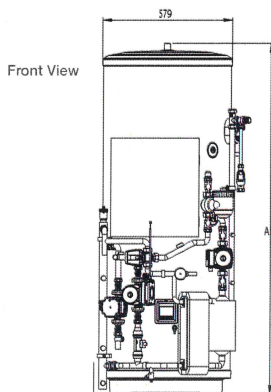


Mitsubishi Electric's fifth generation controller (FTC5) includes intelligent room temperature control as standard. This together with advanced weather compensation ensures the system delivers efficient, comfortable heating regardless of the season. FTC5 now also includes energy monitoring showing consumed and produced energy.

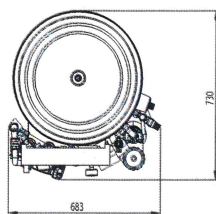
CYLINDER		EHPT15X-UKHCW	EHPT17X-UKHCW	EHPT21X-UKHCW	EHPT25X-UKHCW	EHPT30X-UKHCW
NOMINAL HOT WATER VOLUME (LITRES)		150	170	210	250	300
E/P RATING		B	B	C	C	C
HEAT LOSS (kW/h/24hrs)		1.19	1.32	1.57	1.67	1.89
HEAT LOSS (W)		50	55	65	70	75
WATER		Flow Rate (l/min) W50 - W85 - W112 - HW140				
		Primary Pump			Groundfos UPMGEO 25 - 85	
		Secondary Circuit Pump			Groundfos UPM3 25-70	
		Sanitary Hot Water Pump			Groundfos UPSO 15-60 CIL2	
		Connection Size (mm) Heating / DHW (mm)		22		22
		Primary Expansion Vessel (Litres)		12		18
		Charge Pressure (MPa (Bar))		0.35 (3.5)		0.35 (3.5)
WATER SAFETY DEVICES		Control Thermistor (°C)		1 - 80		1 - 80
		Pressure Relief Valve (MPa (Bar))		0.3 (3)		0.3 (3)
		Expansion Relief Valve (Cold)		0.8 (8)		0.8 (8)
		Control Thermistor		40-70		40-70
		High Limit Stat (°C)		Mechanical 80 (+/-5)		Mechanical 80 (+/-5)
		Temp and Pressure Relief Valve (°C) / (MPa (Bar))		90 / 1.0 (10)		90 / 1.0 (10)
DIMENSIONS (mm)		Width		683		683
		Depth		730		730
		Height		1130		1256
WEIGHT EMPTY / FULL (kg)		56 / 206		62 / 232		69 / 279
CYLINDER MATERIAL		Cylinder Material		Stainless Steel		Stainless Steel
		Insulation		CFC / HCFC-free flame-retardant expanded Polyurethane		
		Insulation Thickness (mm)		60		60
		GWP of Insulation		3.1		3.1
		ODP of Insulation		0		0
ELECTRICAL DATA		Control Board		Electrical Supply		220-240v, 50Hz
		Phase		Single		Single
		Fuse Rating - MCB Sizes (A) ¹		10		10
		Immerision Heater		Electrical Supply		220-240v, 50Hz
		Phase		Single		Single
		Capacity (kW)		3		3
		Max Running Current (A)		13		13
		Fuse Rating - MCB Sizes (A) ²		16		16
MECHANICAL ZONES		DHW and 1 Heating Zone ²				
OPTIONAL SIMPLIFIED WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER		PAR-WT50-E Controller and PAR-WR51-E Receiver				

Cylinder includes: Flow Temperature Controller (FTC5) with Main Controller and Temperature Sensors, Magnetic & Cyclonic Filter, Pumps & Valves for Zone 1 and DHW use, Flow Sensor, Plate Heat Exchanger, Scale Trap, 3kW Immersion Heater and Expansion Vessel.
¹ 1 MCB Sizes BS EN60898-2 & BS EN60947-2 ² 2 Optional 2 zone accessory pack available

DIMENSIONS



Upper View



Model	Overall Height (A)
EHPT15X-UKHCW	1130
EHPT17X-UKHCW	1256
EHPT21X-UKHCW	1508
EHPT25X-UKHCW	1760
EHPT30X-UKHCW	2074

*All dimensions in mm



MELCloud



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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774) or R134a (GWP:1430). These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No 626/2011 from IPCC 3rd edition, these are as follows: R410A (GWP:1975), R32 (GWP: 575), R407C (GWP:1650) or R134a (GWP:1300).



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Effective as of June 2018

Air Conditioning

Product Information

MXZ-F R32
Inverter Heat Pump (3.3-8.0kW)
Multi-Split Units

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Multi-Splits



The **R32 Multi-Split system** allows up to four M Series or Mr Slim wall mounted, cassette, ducted or ceiling suspended indoor units of different capacities to be operated from a single outdoor unit. This makes it an economic and efficient answer for multi-room applications, whilst also offering space saving benefits.

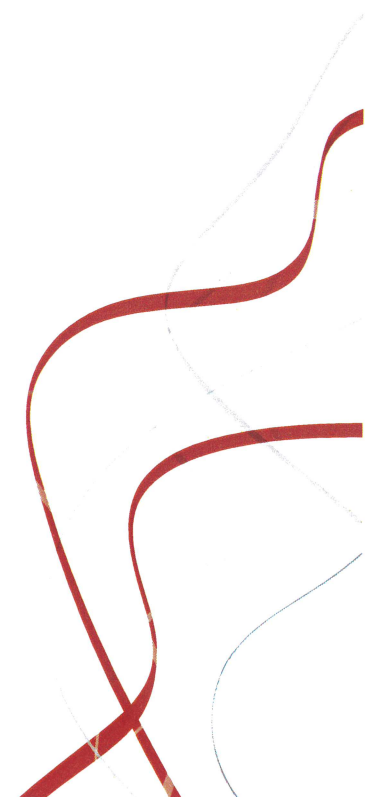
Key Features

- Up to four indoor units may be connected to a single outdoor unit
- Energy saving inverter controlled outdoor unit adjusts compressor performance to economically match the demand for heating and cooling
- Units may be added within the capacity of the system as requirements change
- Capacities of indoor units may be mixed to suit individual rooms



Cooling | Heating | Ventilation | Controls

R32

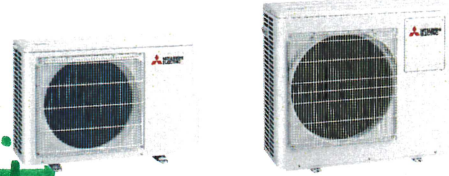


Air Conditioning

Product Information

MXZ-F R32
Inverter Heat Pump (3.3-8.0kW)
Multi-Split Units

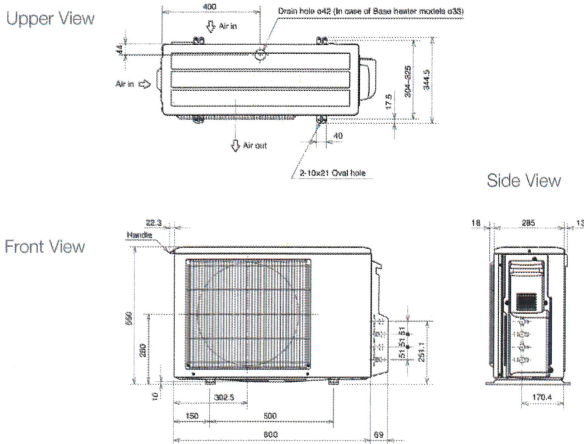
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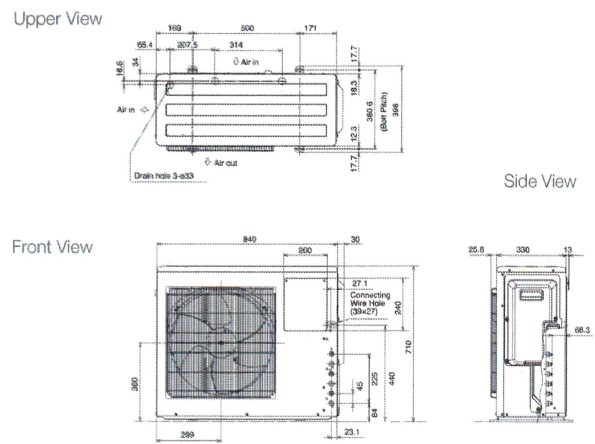
MXZ-F - OUTDOOR UNITS		MXZ-2F33VF2	MXZ-2F42VF2	MXZ-3F54VF2	MXZ-3F68VF2	MXZ-4F72VF2	MXZ-4F80VF2
NUMBER OF CONNECTABLE INDOOR UNITS		2	2	2 - 3	2 - 3	2 - 4	2 - 4
CAPACITY (kW)							
	Heating (nominal)	4.0 (1.0-4.1)	4.5 (1.0-4.8)	7.0 (2.6-9.0)	8.6 (2.6-10.6)	8.6 (3.4-10.7)	8.8 (3.4-11.0)
	Cooling (nominal)	3.3 (1.1-3.8)	4.2 (1.1-4.4)	5.4 (2.9-6.8)	6.8 (2.9-8.4)	7.2 (3.7-8.8)	8.0 (3.7-9.0)
	Heating (UK)	3.32 (0.83-3.40)	3.74 (0.84-3.99)	5.81 (2.16-7.47)	7.14 (2.16-8.80)	7.14 (2.82-8.89)	7.31 (2.82-9.12)
	Cooling (UK)	3.23 (1.07-3.72)	4.12 (1.08-4.32)	5.3 (2.85-6.67)	6.66 (2.84-8.23)	7.0 (3.59-8.56)	7.77 (3.59-8.75)
COP / EER (nominal)*1		4.40 / 3.90	5.10 / 4.30	4.60 / 4.10	4.50 / 3.70	4.60 / 3.90	4.40 / 3.56
SCOP / SEER (BS EN14825)		4.16 / 6.13	4.60 / 8.69	4.61 / 8.52	4.12 / 7.96	4.07 / 8.13	4.07 / 7.55
E/P ENERGY EFFICIENCY CLASS		Heating/Cooling A+ / A++	A++ / A+++	A++ / A+++	A+ / A++	A+ / A++	A+ / A++
MAX AIRFLOW (m³/min)		Heating/Cooling 33.7 / 32.9	33.3 / 27.7	43.0 / 42.1	43.0 / 42.1	43.0 / 42.1	44.1 / 40.3
SOUND PRESSURE LEVEL (dBA)		Heating/Cooling 50 / 49	50 / 44	50 / 46	53 / 48	54 / 48	55 / 50
SOUND POWER LEVEL (dBA)		Cooling 60	59	59	63	63	65
DIMENSIONS (mm)		Width x Depth x Height	800 x 285 x 550	800 x 285 x 550	840 x 330 x 710	840 x 330 x 710	840 x 330 x 710
WEIGHT (kg)			33	37	58	59	59
ELECTRICAL SUPPLY			220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE			Single	Single	Single	Single	Single
POWER INPUT (kW)		Heating/Cooling (nominal)	0.909 / 0.846	0.88 / 0.98	1.52 / 1.32	1.91 / 1.84	1.87 / 1.85
	Heating/Cooling (UK)	0.82 / 0.68	0.90 / 0.78	1.38 / 1.06	1.73 / 1.47	1.69 / 1.48	1.81 / 1.25
STARTING CURRENT (A)			4.6	4.2	7.0	10.5	10.0
RUNNING CURRENT (A)		Heating/Cooling [MAX]	4.6 / 4.3 [10.0]	4.2 / 4.5 [12.2]	7.0 / 5.9 [18.0]	10.5 / 9.6 [18.0]	10.0 / 9.5 [18.0]
INTERCONNECTING CABLE No. CORES			4 Core	4 Core	4 Core	4 Core	4 Core
TOTAL PIPE LENGTH (m)			20	30	50	60	60
MAX PIPE LENGTH PER INDOOR UNIT (m)			15	20	25	25	25
MAX HEIGHT DIFFERENCE (m)			10	15 (10 if OU higher than IU)	15 (10 if OU higher than IU)	15 (10 if OU higher than IU)	15 (10 if OU higher than IU)
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (l) - R32 (GWP 675)			1.00 / 0.68 (20m)	1.20 / 0.81 (20m)	1.40 / 0.95 (50m)	1.40 / 0.95 (60m)	2.40 / 1.62 (60m)
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (l) - R32 (GWP 675)			1.00 / 0.68	1.40 / 0.95	2.40 / 1.62	2.40 / 1.62	2.40 / 1.62
FUSE RATING (BS88) - HRC (A)			16	16	25	25	25

Notes: *1 System COP / EER when connected to MSZ-LN / MSZ-AP x indoor unit connections. Combined max running current of all indoors on system must not exceed 3A.
The SEZ-M25DA cannot be used when the total indoor capacity is equal to the outdoor capacity, i.e. when the capacity ratio is 1.

PRODUCT DIMENSIONS MXZ-2F33VF2, MXZ-2F42VF2



PRODUCT DIMENSIONS MXZ-3F54VF2, MXZ-3F68VF2, MXZ-4F72VF2, MXZ-4F80VF2



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