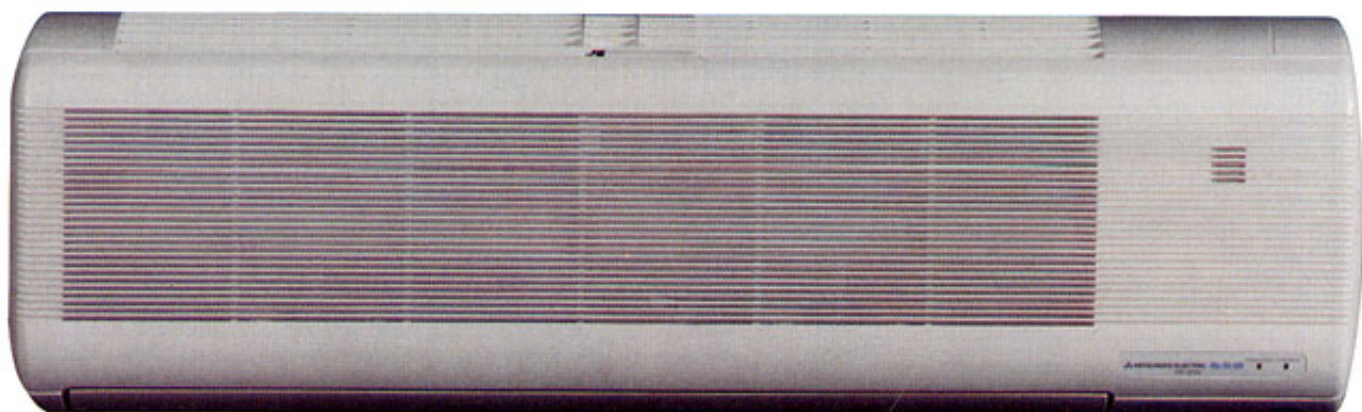


Mr. SLIM™

MSH-N Wall-Mounted Series



- **Odour and fine particle control.**
- **Unique "I Feel" mode for supreme comfort.**
- **Superior air diffusion control at your fingertip.**
- **Advanced microprocessor control.**
- **More compact.**

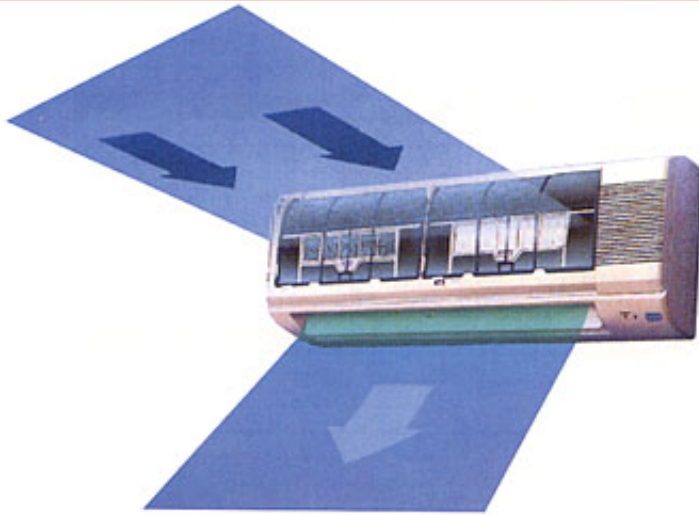
- Enhanced noise suppression.
- Computerized true dehumidification (Dry Cycle).
- Computer controlled defrost cycle.
- Computerized self-diagnostics.
- Intelligent communication between indoor and outdoor units.
- Intelligent high pressure control during heating.
- Automatic restart.
- Automatic fan speed control.
- Simplified installation.
- All units pretested at factory after completion.



Wireless LCD control

- Mr. Slims unique "I Feel" temperature control, or standard Cool/Dry/Heat modes.
- Efficient automatic fan speed control or standard Hi/Med/Low settings.
- Single event stop/start timer.
- Fingertip control of swing vane position.
- Time display.
- Ideal for movement impaired individuals.
- Control can be individually dedicated with six individual addresses.

DUCTLESS-SPLIT HEAT PUMPS

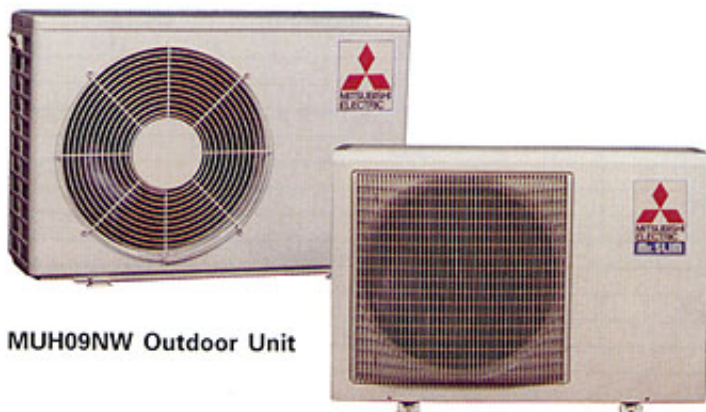
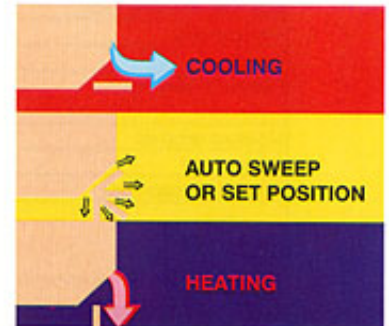


0.01 μ Air Filtering

- Advanced odour and particle removal.
- Inexpensive disposable inserts.
- Activated charcoal to eliminate odours.
- Extra-fine particulate interception/diffusion filtration.

Gentle Air Diffusion

- Whisper quiet operation.
- Swing vane mode ensures gentle air circulation without a draught.
- Remote setting for five different vane positions allows you to match the individual room requirement.
- Auto positioning allows the correct vane position for the mode you are using.
- Hot start system ensures no cold air draughts during heating operation.



MUH09NW Outdoor Unit

MUH17NN Outdoor Unit

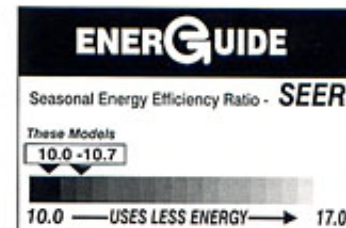
Quiet Reliability Outdoors

- Neutral colour blends easily with surroundings.
- Quiet operation from advanced fan and compressor design.
- Simplified installation requirements.
- Space saving design.

Rotary Compressor

World famous Mitsubishi Electric rotary compressor:

- High dependability.
- Low noise.
- High efficiency.



Mitsubishi Electric Sales Canada Inc.
HVAC Division
4299 - 14th Avenue, Markham, Ontario L3R 0J2
Telephone: (905) 475-7728
Fax: (905) 475-5231
E-Mail hvac@msm.me.com

MSH-N Series Wall Mounted Heat Pump

IP Units

			SYSTEM			
System			MSH09NW-U1	MSH12NN-U1	MSH15NN-U1	MSH17NN-U1
Capacity	Cooling	*1 BTU/h	8,800	12,900	14,600	16,200
	Heating 47°F	*1 BTU/h	10,300	13,500	14,800	17,200
Power consumption	Cooling	*1 W	890	1,310	1,380	1,580
	Heating 47°F	*1 W	890	1,300	1,310	1,570
EER			9.9	9.8	10.6	10.3
SEER			10.0	10.2	10.7	10.4
HSPF			6.8	6.8	6.8	6.8
COP	Heating 47°F		3.5	3.5	3.3	3.2
INDOOR UNIT			MSH09NW-U1	MSH12NN-U1	MSH15NN-U1	MSH17NN-U1
External finish			White			
Power supply			V, Phase, Hz			
Max. fuse size (time delay)			115, 1,60			
Min. ampacity			15			
Fan motor			A			
Airflow Lo-Med-Hi			FLA			
Moisture removal			0.37			
Sound level			0.6			
Cond. drain conn. OD			0.7			
Dimensions			0.51			
Weight			0.51			
Dry			CFM			
Wet			CFM			
Moisture removal			Pints/h			
Sound level			dB(A)			
Cond. drain conn. OD			in			
Dimensions			in			
Weight			lbs			
OUTDOOR UNIT			MUH09NW-U1	MUH12NN-U1	MUH15NN-U1	MUH17NN-U1
External finish			Munsell 5Y 6.5/1			
Sound level			dB(A)			
Power supply			V, Phase, Hz			
Max. fuse size (time delay)			115, 1,60			
Min. ampacity			20			
Fan motor			A			
Compressor			FLA			
Refrigerant control			Model (type)			
Defrost method			RLA			
Dimensions			in			
Weight			lbs			
Dry			CFM			
Wet			CFM			
Moisture removal			Pints/h			
Sound level			dB(A)			
Cond. drain conn. OD			in			
Dimensions			in			
Weight			lbs			
REFRIGERANT PIPING			NOT SUPPLIED (OPTIONAL PARTS)			
Refrigerant Tubing (Individually Insulated)			Liquid			
Connection Method			Gas			
Maximum Height Differential			ft			
Maximum Line Length			ft			
Refrigerant Type			R22			
Precharged To			ft			
REMOTE CONTROLLER			WIRELESS TYPE			
Control voltage (by built-in transformer)			DC 12V			

Notes:

- Rating Conditions:

Cooling:	Indoor: 80° F DB 67° F WB	Outdoor: 95° F DB 75° F WB
Heating:	Indoor: 70° F DB 60° F WB	Outdoor: 47° F DB 43° F WB

2. Depth of outdoor unit includes thickness of fan grille

3. Outdoor unit must have 6 inches clearance above snow for adequate drainage during defrost cycle.

4. Shielded low voltage cable with one end of shield grounded may be required if high inductive transients are present

Operating Range

		Indoor Air Intake Temperature		Outdoor Air Intake Temperature	
COOLING	MAXIMUM	95° F DB	71° F WB	115° F DB	
	MINIMUM	67° F DB	57° F WB	67° F DB	
HEATING	MAXIMUM	80° F DB	67° F WB	75° F DB	65° F WB
	MINIMUM	70° C DB	60° F WB	17° F DB	15° F WB

Units must be installed in accordance with federal, provincial and local codes and ordinances by qualified personnel

Specifications subject to change without notice

MSH-N Series Wall Mounted Heat Pump

SI Units

			SYSTEM			
System			MSH09NW-U1	MSH12NN-U1	MSH15NN-U1	MSH17NN-U1
Capacity	Cooling	*1 kW/h	2.58	3.78	4.28	4.28
	Heating	8°C *1 kW/h	3.08	3.96	4.34	5.04
Power consumption	Cooling	*1 W	890	1,310	1,380	1,580
	Heating	8°C *1 W	890	1,300	1,310	1,570
EER		*1	9.9	9.8	10.6	10.3
SEER			10.0	10.2	10.7	10.4
HSPF			6.8	6.8	6.8	6.8
COP	Heating	8°C	3.5	3.5	3.3	3.2
INDOOR UNIT			MSH09NW-U1	MSH12NN-U1	MSH15NN-U1	MSH17NN-U1
External finish			White			
Power supply	V, Phase, Hz		115, 1, 60			
Max. fuse size (time delay)			A			
Min. ampacity			A			
Fan motor			FLA			
Airflow Lo-Med-Hi	Dry	l/s	102-130-161	176-194-222		200-217-241
	Wet	l/s	84-107-132	147-160-183	138-151-173	161-175-195
Moisture removal			l/h			
Sound level			dB(A)			
Cond. drain conn. OD			in			
Dimensions	W	mm	815	85		
	D	mm	185	190		
	H	mm	275	320		
Weight			kg			
OUTDOOR UNIT			MUH09NW-U1	MUH12NN-U1	MUH15NN-U1	MUH17NN-U1
External finish			Munsell 5Y 6.5/1			
Sound level			dB(A)			
Power supply	V, Phase, Hz		115, 1, 60			
Max. fuse size (time delay)			A			
Min. ampacity			A			
Fan motor			FLA			
Compressor	Model (type)		RH140WGJT	RH189NHDT	RH207NHDT	RH231NHDT
	RLA		12	10		
	LRA		42	35		
Refrigerant control			Capillary Tube			
Defrost method			Reverse cycle			
Dimensions	W	mm	745	850		870
	D	*2 mm	255	290		295
	H	mm	540	585		850
Weight			kg			
REFRIGERANT PIPING			NOT SUPPLIED (OPTIONAL PARTS)			
Refrigerant Tubing (Individually Insulated)	Liquid		1/4			
	Gas		3/8			
Connection Method			Flare			
Maximum Height Differential			m			
Maximum Line Length			m			
Refrigerant Type			R22			
Precharged To			m			
REMOTE CONTROLLER			WIRELESS TYPE			
Control voltage (by built-in transformer)			DC 12V			

Notes:

- Rating Conditions:

Cooling:	Indoor: 27° C DB 19° C WB	Outdoor: 35° C DB 24° C WB
Heating:	Indoor: 21° C DB 16° F WB	Outdoor: 8° F DB 6° C WB
- Depth of outdoor unit includes thickness of fan grille
- Outdoor unit must have 150 mm clearance above snow for adequate drainage during defrost cycle.
- Shielded low voltage cable with one end of shield grounded may be required if high inductive transients are present

Operating Range

		Indoor Air Intake Temperature	Outdoor Air Intake Temperature
COOLING	MAXIMUM	35° C DB 22° C WB	46° C DB
	MINIMUM	19° C DB 14° C WB	19° C DB
HEATING	MAXIMUM	26° C DB 19° C WB	24° C DB 18° C WB
	MINIMUM	21° C DB 15° C WB	-8° C DB -9° C WB

Units must be installed in accordance with federal, provincial and local codes and ordinances by qualified personnel

Specifications subject to change without notice