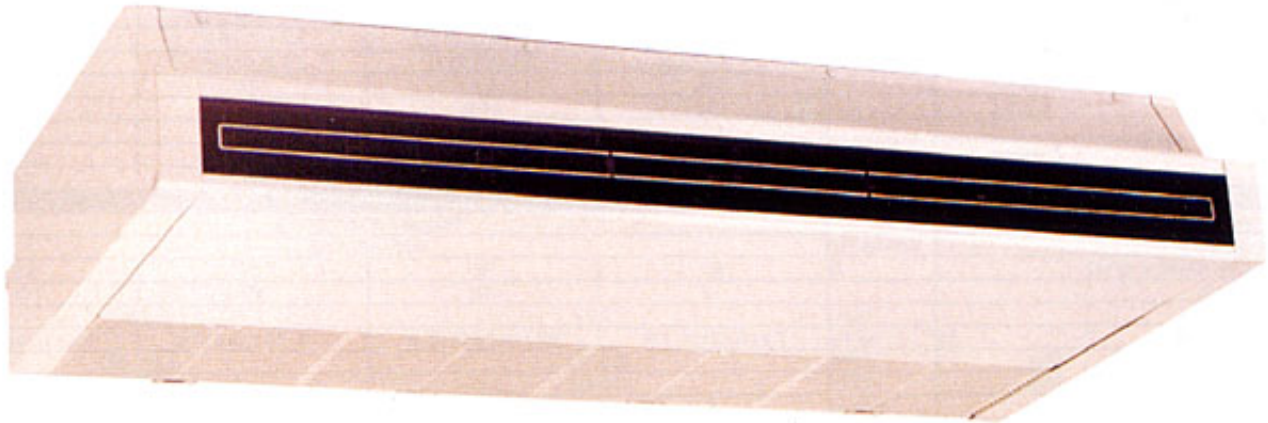


Mr.SLIM™ PCH Ceiling Suspended Series



- **More compact.**
- **Superior air diffusion.**
- **Auto/swing vane operation.**
- **Standard ambient operation down to -18°C (0°F).**

- Ease of maintenance filter system.
- Enhanced noise suppression.
- Simplified installation.
- Computerized dehumidification.
- Computerized self-diagnostics.
- Cold-air prevention mode during heating.
- Comfort booster heater.
- Computer controlled defrost operation.
- All units pretested at factory.
- Comfort zephyr louvre distribution



“Intelligent” remote control

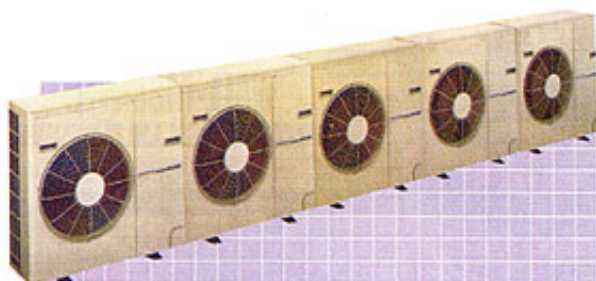
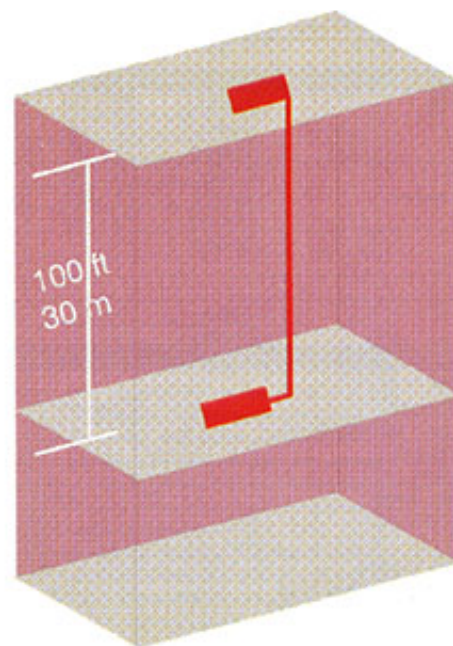
- May be located up to 167 M (550 ft) away.
- Does not have to be located in zone.
- May control up to 50 units.
- May be interfaced to full energy management systems (See Data Sheet 97APP03).
- May be used with status panel/alarm system (See Engineering Manual).
- Optional solid state 7 day timer control

DUCTLESS-SPLIT HEAT PUMPS

HIGHLY EFFICIENT
REDI-CHARGED
REFRIGERANT SYSTEM

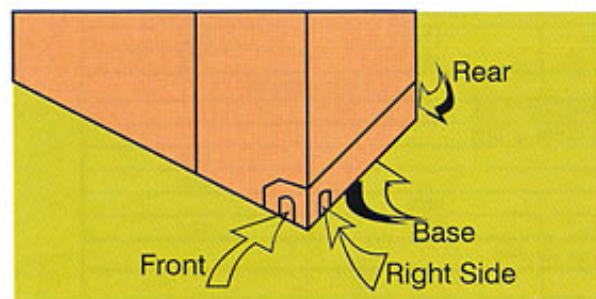
Redi-Charged!

- Units precharged to first 30 m (100 ft.), no adjustment required!
- Lines may be vertical or horizontal to maximum run length.
- Maximum run length to 40 m (130 ft.) for PUH12EK, PUH18EK, PUH24EK.
- Maximum run length to 50 m (164 ft.) for PUH30EK, PUH36EK, PUH42EK.
- No trapping required!

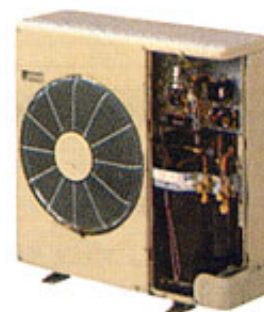


Superior Outdoor Design

- Totally front serviceable.
- May be rowed or racked.
- Standard wind baffle included with system.
- On-board computer diagnostics.
- Computer-controlled fan speed.
- Standard low ambient operation to -17°C (0°F).
- Special extra-low ambient machines for -40° operation.
- Oil separator and bypass valve for excellent low ambient operation



Four-way access for easy installation.



Rotary Compressor

World famous Mitsubishi Electric rotary compressor:

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



ENERGUIDE

Seasonal Energy Efficiency Ratio - **SEER**

This Series

10.2 - 11.1

10.0 — USES LESS ENERGY — 17.0

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@mesca.mea.com

PCH-EK Series Ceiling Suspended Ductless Heat Pumps

IP Units

			Model			
Item			PCH24EK	PCH30EK	PCH36EK	PCH42EK
Capacity	Cooling	*1 BTU/h	24,000	30,000	35,400	42,000
	Heating	*1 BTU/h	27,000 [32,500 / 33,500]	33,000 [39,800 / 41,500]	38,000 [45,900 / 47,600]	45,000 [52,900 / 54,600]
	Heating	*2 BTU/h	18,400 [23,900 / 24,900]	18,000 [24,800 / 26,500]	19,600 [27,500 / 29,200]	24,800 [32,700 / 34,400]
Power consumption	Cooling	*1 kW	2.46	3.06	3.53	4.37
	Heating	*1 kW	2.42 [4.02 / 4.32]	3.13 [5.13 / 5.63]	3.4 [5.7 / 6.2]	4.3 [6.6 / 7.1]
	Heating	*2 kW	2.1 [3.7 / 4.0]	2.6 [4.6 / 5.1]	2.7 [5.0 / 5.5]	3.2 [5.5 / 6.0]
EER	Cooling	*1	9.8	9.8	10.0	9.6
SEER			10.3	10.0	10.4	10.0
HSPF			7.1	7.1	7.4	7.3
COP	Heating	*1	3.3	3.1	3.3	3.1
	Heating	*2	2.6	2.4	2.1	2.3
INDOOR UNIT			PCH24EK	PCH30EK	PCH36EK	PCH42EK
External finish			Munsell 2.5Y 8/0.3 & N2			
Power supply			V, phase, Hz			
Max. fuse size(time delay)			A			
Min. ampacity			in.			
Fan motor			F.L.A.			
Auxiliary heater			*4 A(kW)			
Airflow Hi-Lo			CFM			
			CFM			
Moisture removal			Pints/h			
Sound pressure level Hi-Lo			dB(A)			
Cond. drain connection OD			in.			
Dimensions			W			
			D			
			H			
Weight			lbs.			
OUTDOOR UNIT			PUH24EK	PUH30EK	PUH36EK	PUH42EK
External finish			Munsell 5Y7/1			
Sound pressure level			dB(A)			
Power supply			V, phase, Hz			
Max. fuse size(time delay)			A			
Min. ampacity			A			
Fan motor			F.L.A.			
Compressor			Model			
			R.L.A.			
			L.R.A.			
Crankcase heater			A(W)			
Refrigerant control			CAPILLARY TUBE			
Defrost method			REVERSE CYCLE			
Dimensions			W			
			D			
			H			
Weight			lbs.			
REFRIGERANT PIPING			Not supplied			
Refrigerant Tubing (Individually Insulated)			Liquid		Gas	
			in.		in.	
Connection Method			Flared			
Between the Indoor and Outdoor units			Height			
Piping Length			ft.			
Refrigerant Type			R22			
REMOTE CONTROLLER			*5 With indoor unit			
Control voltage			*5 12 vdc			

*1 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 Rating conditions(heating): Indoor: 70° F DB, 60° F WB Outdoor: 17° F DB, 15° F WB

*3 Heating capacity and power consumption in [] include auxiliary electric heater operation at 208/230V

*4 Comfort booster is not a full time heater

*5 Shielded wire with computer ground must be used in areas with high inductance transients

PCH-EK Series Ceiling Suspended Ductless Heat Pumps

SI Units

			Model			
Item			PCH24EK	PCH30EK	PCH36EK	PCH42EK
Capacity	Cooling	*1 kW	7	9	11	13
	Heating	*1 kW	7.9 [9.5 / 9.8]	9.7 [11.7 / 12.2]	11.2 [13.5 / 13.9]	13.2 [15.5 / 16.0]
	Heating	*2 kW	5.4 [7.0 / 7.3]	5.3 [7.3 / 7.8]	5.9 [8.1 / 8.6]	7.3 [9.6 / 10.1]
Power consumption	Cooling	*1 kW	2.46	3.06	3.53	4.37
	Heating	*1 kW	2.42 [4.02 / 4.32]	3.13 [5.13 / 5.63]	3.4 [5.7 / 6.2]	4.3 [6.6 / 7.1]
	Heating	*2 kW	2.1 [3.7 / 4.0]	2.6 [4.6 / 5.1]	2.7 [5.0 / 5.5]	3.2 [5.5 / 6.0]
EER	Cooling	*1	9.8	9.8	10.0	9.6
SEER			10.3	10.0	10.4	10.0
HSPF			7.1	7.1	7.4	7.3
COP	Heating	*1	3.3	3.1	3.3	3.1
	Heating	*2	2.6	2.4	2.1	2.3
INDOOR UNIT			PCH24EK	PCH30EK	PCH36EK	PCH42EK
External finish			Munsell 2.5Y 8/0.3 & N2			
Power supply		V,phase,Hz	208 / 230,1,60			
Max. fuse size(time delay)		A	20	25	25	25
Min.ampacity			12	15	15	17
Fan motor		F.L.A.	0.7			1.3
Auxiliary heater		*4 A(kW)	7.6 / 8.4 (1.6 / 1.9)	9.8 / 10.8 (2.0 / 2.5)	10.8 / 12.0 (2.3 / 2.8)	10.8 / 12.0 (2.3 / 2.8)
Airflow Hi-Lo	Dry	l/s	452 - 364		624 - 486	
	Wet	l/s	408 - 329		540 - 423	
Moisture removal		l/h	3.3	4.3	4.8	5.8
Sound pressure level Hi-Lo		dB(A)	50-43			51-45
Cond. drain connection OD		in.	1			
Dimensions	W	mm	820			1580
	D	mm	680			345
	H	mm	260			1260
Weight		kg	45.9			54.1
OUTDOOR UNIT			PUH24EK	PUH30EK	PUH36EK	PUH42EK
External finish			Munsell 5Y7/1			
Sound pressure level		dB(A)	55			56
Power supply		V,phase,Hz	208/230,1,60			
Max. fuse size(time delay)		A	20	30	30	40
Min.ampacity		A	16	20	22	27
Fan motor		F.L.A.	0.65+0.65	0.75+0.75		0.8+0.8
Compressor	Model		NH33NBD	NH41NAD	NH47NAD	NH569NXA
	R.L.A		11.5	14.0	17.5	20.0
	L.R.A		54	73	87	105
Crankcase heater		A(W)	0.11/0.12(23/28)		0.16/0.17(33/39)	
Refrigerant control			CAPILLARY TUBE			
Defrost method			REVERSE CYCLE			
Dimensions	W	mm	870			970
	D	mm	295			345
	H	mm	1260	1260		
Weight		kg	91.8	111	111	122
REFRIGERANT PIPING			Not supplied			
Refrigerant Tubing (Individually Insulated)	Liquid	in.	3/8		1/2	
	Gas	in.	5/8		3/4	7/8
Connection Method			Flared			
Between the Indoor and Outdoor units	Height	m	50			50
	Piping Length	m	50			50
Refrigerant Type			R22			
REMOTE CONTROLLER		*5	With indoor unit			
Control voltage		*5	12 vdc			

*1 Rating conditions(cooling): Indoor: 30° C DB, 19° C WB Outdoor: 35° C DB, 24° C WB

(heating): Indoor: 21.1° C DB, 15.5° C WB Outdoor: 8.3° C DB, 6.1° C WB

*2 Rating conditions(heating): Indoor: 21.1° C DB, 15.5° C WB Outdoor: -8.3° C DB, -9.4° C WB

*3 Heating capacity and power consumption in [] include auxiliary electric heater operation at 208/230V

*4 Comfort booster is not a full time heater

*5 Shielded wire with computer ground must be used in areas with high inductance transients