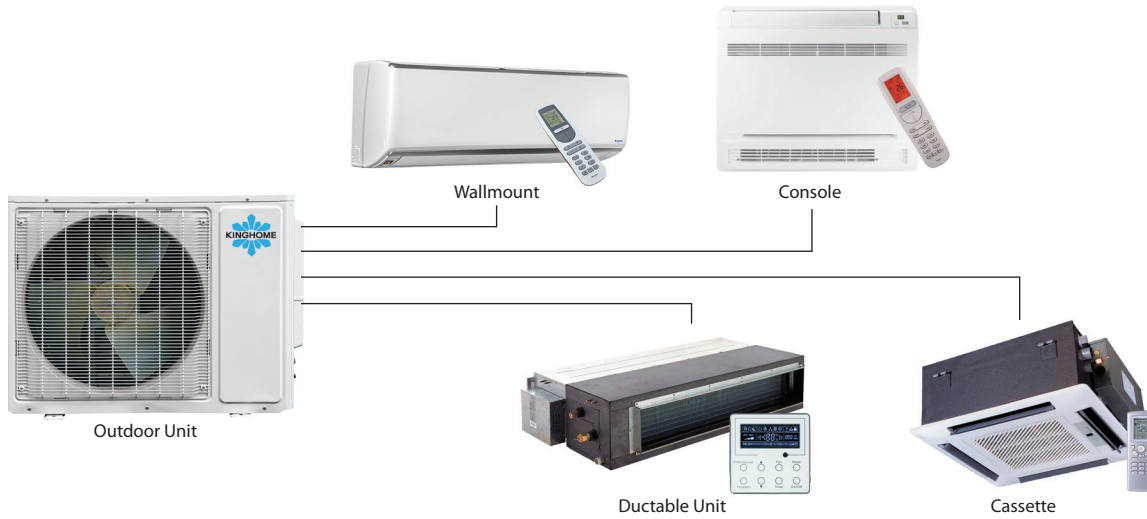




# FREE MATCH ULTRA HEAT

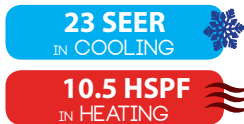
Ductless MultiZone Heat Pump



Performance up to



Up to



## Features

### Operation mode

- Cooling, heating, dehumidifying, fan and auto.

### Nominal capacity

- 18000, 22000, 36000, 42000 BTU/hr.

### Voltage

- 230/208V, 60 Hz, 1-phase.

### Outdoor unit

- Variable speed rotary compressor (INVERTER), with overload protection.
- Electronic expansion valve for precise control of refrigerant flow.
- Condenser fins covered with a hydrophilic coating for improved corrosion resistance.

- Large diameter quiet axial-flow fan for more efficient heat exchange.
- Smart pan heater to prevent ice formation.
- Compressor blanket and preheating technology.

### Connection piping

- Minimum piping length of 10 ft. (3 m).
- Flared connections.

### Application

- Dining room-kitchen, living room, family room, commercial building, office building, condo, restaurant.

## Includes



Smart Pan Heater



Crankcase Heater



Fin Coating



Quiet Design



Smart Defrosting



Smart Preheating



Auto Restart



Auto-Clean



Self-Diagnosis



Sleep Mode



Turbo Mode



Up & Down Swing



Timer



Lock

# FREE MATCH ULTRA HEAT

## Outdoor Unit Models

Product #			KM18UH50	KM24UH50	KM36UH50	KM42UH50
<b>Technical Performance</b>						
<b>Number of connectable indoor unit</b>		-	1 to 2	2 to 3	2 to 4	2 to 5
<b>Voltage</b>		Volts	230/208	230/208	230/208	230/208
<b>Cooling capacity</b>	Nominal	W (BTU/hr)	5 300 (18 000)	6 450 (22 000)	10 550 (36 000)	12 300 (42 000)
	Min. – max.	W (BTU/hr)	2051 - 6155 (6 998 - 21 001)	2 198 - 9 672 (7 500 - 33 000)	2 600 - 12 500 (8 871 - 42 650)	2 600 - 12 600 (10 235 - 42 990)
<b>Heating capacity</b>	Nominal	W (BTU/hr)	6 150 (21 000)	7 650 (26 000)	10 550 (36 000)	12 300 (42 000)
	Min. – max.	W (BTU/hr)	2 052 - 7 600 (7 000 - 26 000)	2 198 - 9 100 (7 500 - 31 000)	2 600 - 12 460 (8 871 - 42 515)	3 000 - 13 700 (10 235 - 46 744)
<b>Used cooling power input</b>	Nominal	W	1450	1760	4020	4660
<b>Used heating power input</b>	Nominal	W	1710	2090	3300	3600
<b>MCA</b>		A	22	26	32	32
<b>Max. over-current protection (MOCP)</b>		A	35	40	60	60
<b>SEER</b>		-	23	23	23	23
<b>HSPF</b>		-	10.5	10.5	10	10
<b>EER</b>		W/W	12.5	12.5	9	9
<b>COP</b>		W/W	3.6	3.6	3.2	3.4
<b>ENERGY STAR</b>		-	✓	✓	-	-
<b>Air flow volume</b>		cfm	2530	2530	3060	3060
<b>Sound level</b>		dB (A)	58	60	62	62
<b>Compressor power input</b>		W	14.9	17	27	28.5
<b>Fan motor power output</b>		W	90	90	90	90
<b>Refrigerant volume (R410A)</b>		oz (g)	77.6 (2200)	95 (2700)	158 (4500)	176 (5000)
<b>Dimension</b>	L x H x D	po (mm)	39 1/2x 31 1/8 x 16 7/8 (1000 x 790 x 427)	39 1/2x 31 1/8 x 16 7/8 (1000 x 790 x 427)	42 7/8 x 43 7/16 x 17 5/16 (1087 x 1103 x 440)	42 7/8 x 43 7/16 x 17 5/16 (1087 x 1103 x 440)
<b>Net weight</b>		lb (kg)	171 (78)	171 (78)	282 (128)	282 (128)
<b>Operating ambient temperature</b>	Cooling	°C (°F)	-18 to 48 (0 to 118)			
	Heating	°C (°F)	-35 to 24 (-31 to 75.2)			
<b>Connection Piping/Refrigerant</b>						
<b>Pre-charge length</b>		ft. (m)	65.6 (20)	98.4 (30)	131 (40)	131 (40)
<b>Additional refrigerant charge</b>		oz/ft. (g/m)	0.2 (20)	0.2 (20)	0.2 (20)	0.2 (20)
<b>Liquid pipe outer diameter</b>		in.	1/4	1/4	1/4	1/4
<b>Gas pipe outer diameter</b>		in.	3/8	3/8	3/8	3/8
<b>Max. height difference outdoor to indoor unit</b>		ft. (m)	26.2 (8)	26.2 (8)	49.21 (15)	49.21 (15)
<b>Max. height difference between indoor units</b>		ft. (m)	26.2 (8)	26.2 (8)	49.21 (15)	49.21 (15)
<b>Max. length outdoor to last indoor unit</b>		ft. (m)	82 (25)	82 (25)	82 (25)	82 (25)
<b>Max. total length</b>		ft. (m)	164 (50)	229.7 (70)	246.1 (75)	262.5 (80)



3400, boulevard Industriel  
Sherbrooke, Québec  
J1L 1V8 Canada

T 1.819.346.8493  
TF 1.800.567.2733  
F 1.819.822.4227  
info@dettson.ca  
[www.dettson.com](http://www.dettson.com)

# FREE MATCH ULTRA HEAT

## Indoor Unit Models

### LOMO Wallmount

Product #			KW09HQ2B8DI	KW12HQ2B8DI	KW18HQ2B8DI	KW24HQ2B8DI
Cooling capacity	Nominal	W (BTU/hr)	2638 (9000)	3517 (12000)	5275 (18000)	6448 (22000)
Heating capacity	Nominal	W (BTU/hr)	3224 (11000)	3810 (13000)	5800 (19800)	6741 (23000)
Dehumidification		pt/hr (l/hr)	1.69 (0.80)	2.96 (1.40)	3.80 (1.80)	4.23 (2.00)
Air flow volume	Min. - max.	cfm	171 / 377	171 / 400	335 / 559	530 / 706
Sound level	Min. - max.	dB (A)	29 / 43	29 / 45	39 / 47	36 / 48
Dimension	L x H x D	in. (mm)	33 1/4 x 11 3/8 x 8 1/4 (845 x 289 x 209)	33 1/4 x 11 3/8 x 8 1/4 (845 x 289 x 209)	38 3/16 x 11 13/16 x 8 13/16 (970 x 300 x 224)	42 7/16 x 12 13/16 x 9 11/16 (1078 x 325 x 246)
Net Weight		lb (kg)	22 (10)	22 (10)	28 (13)	34 (15)
Liquid pipe outer diameter		in.	1/4	1/4	1/4	1/4
Gas pipe outer diameter		in.	3/8	1/2	5/8	5/8

### Console

Product #			KM09HEDI	KM12HEDI
Cooling capacity	Nominal	W (BTU/hr)	2638 (9000)	3517 (12000)
Heating capacity	Nominal	W (BTU/hr)	2784 (9500)	3810 (13000)
Dehumidification		pt/hr (l/hr)	1.69 (0.80)	2.96 (1.40)
Air flow volume	Min. - max.	cfm	188 / 382	206 / 441
Sound level	Min. - max.	dB (A)	26 / 40	32 / 43
Dimension	L x H x D	in. (mm)	27 5/8 x 23 5/8 x 8 1/2 (701 x 599 x 216)	27 5/8 x 23 5/8 x 8 1/2 (701 x 599 x 216)
Net Weight		lb (kg)	33 (15)	33 (15)
Liquid pipe outer diameter		in.	1/4	1/4
Gas pipe outer diameter		in.	3/8	3/8

### Ductable Unit

Product #			KM09HFDI	KM12HFDI	KM18HFDI	KM24HFDI
Cooling capacity	Nominal	W (BTU/hr)	2491 (8500)	3488 (11900)	4484 (15300)	6975 (23800)
Heating capacity	Nominal	W (BTU/hr)	2784 (9500)	3839 (13100)	5480 (18700)	8030 (27400)
Dehumidification		pt/hr (l/hr)	1.69 (0.80)	2.96 (1.40)	3.80 (1.80)	5.28 (2.50)
Air flow volume	Min. - max.	cfm	147 / 265	176 / 324	294 / 412	324 / 588
Sound level	Min. - max.	dB (A)	31 / 37	32 / 39	33 / 41	34 / 42
Dimension	L x H x D	in. (mm)	27 5/8 x 7 7/8 x 24 3/16 (701 x 201 x 615)	27 5/8 x 7 7/8 x 24 3/16 (701 x 201 x 615)	35 3/8 x 7 7/8 x 24 3/16 (899 x 201 x 615)	43 5/16 x 7 7/8 x 24 3/16 (1100 x 201 x 615)
Net Weight		lb (kg)	49 (22)	51 (23)	60 (27)	68 (31)
Liquid pipe outer diameter		in.	1/4	1/4	1/4	3/8
Gas pipe outer diameter		in.	3/8	3/8	1/2	5/8

### Cassette

Product #			KM12HKDI	KM18HKDI	KM24HKDI
Cooling capacity	Nominal	W (BTU/hr)	3500 (12000)	4200 (14400)	6682 (22800)
Heating capacity	Nominal	W (BTU/hr)	3800 (13000)	4700 (16000)	8030 (27400)
Dehumidification		pt/hr (l/hr)	2.96 (1.40)	3.80 (1.80)	5.28 (2.50)
Air flow volume	Min. - max.	cfm	265 / 382	265 / 417	518 / 753
Sound level	Min. - max.	dB (A)	34 / 44	35 / 47	36 / 47
Unit Dimension	L x H x D	in. (mm)	23 1/2 x 9 1/2 x 23 1/2 (596 x 240 x 596)	23 1/2 x 9 1/2 x 23 1/2 (596 x 240 x 596)	33 1/8 x 9 1/2 x 33 1/8 (840 x 240 x 840)
Grille Dimension	L x H x D	in. (mm)	26 3/8 x 1 7/8 x 26 3/8 (670 x 50 x 670)	26 3/8 x 1 7/8 x 26 3/8 (670 x 50 x 670)	37 3/8 x 2 5/16 x 37 3/8 (950 x 60 x 950)
Net Weight		lb (kg)	44 (20)	44 (20)	57 (26)
Liquid pipe outer diameter		in.	1/4	1/4	3/8
Gas pipe outer diameter		in.	3/8	1/2	5/8

Note that each unit is individually packaged.



3400, boulevard Industriel  
Sherbrooke, Québec  
J1L 1V8 Canada

T 1.819.346.8493  
TF 1.800.567.2733  
F 1.819.822.4227  
info@dettson.ca  
www.dettson.com

# FREE MATCH ULTRA HEAT

## To order

**1** Choose the outdoor unit based on the system capacity required.

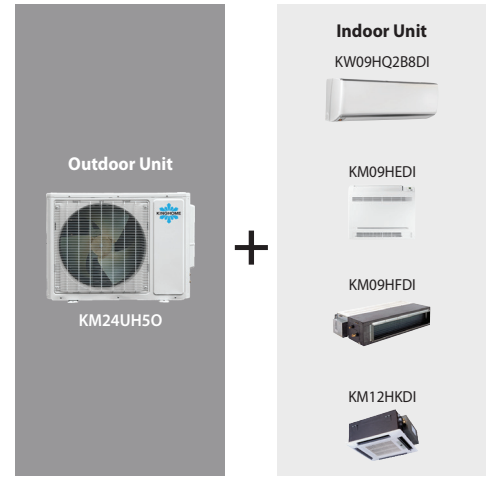
**2** Choose the appropriate indoor unit combination by referring to the combination table below.  
Refer to the legend to find the product # of the indoor units you want to order.

Note that each unit is individually packaged.

### Example:

Outdoor unit required:  
KM24UH50

Indoor unit combination chosen:  
09 + 09 + 12 + 12 + 18



## Combination Table

Outdoor Unit	2 Indoor Units
KM18UH50	09 + 09
	09 + 12
	12 + 12

Outdoor Unit	2 Indoor Units	3 Indoor Units
	KM24UH50	09 + 09
09 + 12		09 + 09 + 12
09 + 18		09 + 09 + 18
12 + 12		09 + 12 + 12
12 + 18		12 + 12 + 12
18 + 18		-
-		-

Outdoor Unit	2 Indoor Units	3 Indoor Units	4 Indoor Units
	KM36UH50	09 + 09	09 + 09 + 09
09 + 12		09 + 09 + 12	09 + 09 + 09 + 12
09 + 18		09 + 09 + 18	09 + 09 + 09 + 18
09 + 24		09 + 09 + 24	09 + 09 + 09 + 24
12 + 12		09 + 12 + 12	09 + 09 + 12 + 12
12 + 18		09 + 12 + 18	09 + 09 + 12 + 18
12 + 24		09 + 12 + 24	09 + 09 + 12 + 24
18 + 18		09 + 18 + 18	09 + 09 + 18 + 18
18 + 24		09 + 18 + 24	09 + 12 + 12 + 12
24 + 24		12 + 12 + 12	09 + 12 + 12 + 18
-		12 + 12 + 18	12 + 12 + 12 + 12
-		12 + 12 + 24	12 + 12 + 12 + 18
-		12 + 18 + 18	-
-		12 + 18 + 24	-
-		18 + 18 + 18	-

Outdoor Unit	2 Indoor Units	3 Indoor Units	4 Indoor Units	5 Indoor Units
	KM42UH50	09 + 09	09 + 09 + 09	09 + 09 + 09 + 09
09 + 12		09 + 09 + 12	09 + 09 + 09 + 12	09 + 09 + 09 + 09 + 12
09 + 18		09 + 09 + 18	09 + 09 + 09 + 18	09 + 09 + 09 + 09 + 18
09 + 24		09 + 09 + 24	09 + 09 + 09 + 24	09 + 09 + 09 + 09 + 24
12 + 12		09 + 12 + 12	09 + 09 + 12 + 12	09 + 09 + 09 + 12 + 12
12 + 18		09 + 12 + 18	09 + 09 + 12 + 18	09 + 09 + 09 + 12 + 18
12 + 24		09 + 12 + 24	09 + 09 + 12 + 24	09 + 09 + 09 + 18 + 18
18 + 18		09 + 18 + 18	09 + 09 + 18 + 18	09 + 09 + 12 + 12 + 12
18 + 24		09 + 18 + 24	09 + 09 + 18 + 24	09 + 09 + 12 + 12 + 18
24 + 24		09 + 24 + 24	09 + 12 + 12 + 12	09 + 12 + 12 + 12 + 12
-		12 + 12 + 12	09 + 12 + 12 + 18	09 + 12 + 12 + 12 + 18
-		12 + 12 + 18	09 + 12 + 12 + 24	12 + 12 + 12 + 12 + 12
-		12 + 12 + 24	09 + 12 + 18 + 18	-
-		12 + 18 + 18	09 + 12 + 18 + 24	-
-		12 + 18 + 24	09 + 18 + 18 + 18	-
-		12 + 24 + 24	12 + 12 + 12 + 12	-
-		18 + 18 + 18	12 + 12 + 12 + 18	-
-		18 + 18 + 24	12 + 12 + 12 + 24	-
-		-	12 + 12 + 18 + 18	-

## Legend

Code	BTU/hr
09	9000 BTU/hr
12	12000 BTU/hr
18	18000 BTU/hr
24	24000 BTU/hr



3400, boulevard Industriel  
Sherbrooke, Québec  
J1L 1V8 Canada

T 1.819.346.8493  
TF 1.800.567.2733  
F 1.819.822.4227  
info@dettson.ca  
www.dettson.com