

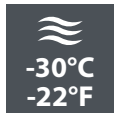
Why choose a central heat pump system?

Central heat pump systems are energy efficient. A system like the Flexx series allows efficient operation down to a temperature of -30°C . The central heat pump offers the considerable advantage that a single device is sufficient to heat or cool the home in which the system is installed.

Performance up to



Cooling



Heating

Up to



Outdoor Unit

- Variable speed rotary compressor (INVERTER), with overload protection.
- Compressor blanket and preheating technology.
- Condenser fins covered with a hydrophilic coating for improved corrosion resistance.
- Large diameter quiet axial-flow fan for more efficient heat exchange.
- Works with two types of indoor units.
- Eligible for federal and provincial rebates.



Indoor Unit

Air handler

- Compact and space-saving design.
- Compatible with most standard 24V thermostats.
- Includes self-diagnosis function.

Cased Coil

- Can be matched with existing third-party furnace.
- Available in various sizes and power ratings.
- Ultra efficient down to a temperature of -30°C .
- Ideal for retrofitting.



Air Handler



Cased Coil



INNOVAIR
SOLUTIONS

ACD heat pumps are distributed by Innovair Solutions. An industry leader in manufacturing and distributing heating and air conditioning systems under the brands Ouellet, Global Commander, Convectair, Tosot, Dettson and Hazloc Heaters, Innovair Solutions has built its reputation on outstanding service and its personal, customer-oriented approach.

Flexx
OTP-F Series

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Flexx Heat Pump Central System

OTP-F Series

Models - Outdoor Unit

Product #		FXD-ACD36		FXD-ACD60		
Technical Performance						
Cooling capacity	Nominal	BTU/hr	24000	36000	48000	54000
	Min. – max.	W (BTU/hr)	3.2 - 10.8 (11000 - 37000)	3.2 - 10.8 (11000 - 37000)	9.96 - 14.65 (34000 - 50000)	9.96 - 15.24 (34000 - 52000)
Heating capacity	Nominal	BTU/hr	24000	36000	48000	54000
	Min. – max.	W (BTU/hr)	2.9 - 11.1 (10000 - 38000)	2.9 - 11.1 (10000 - 38000)	10.26 - 16.12 (35000 - 55000)	10.26 - 17.58 (35000 - 60000)
Power supply		V / Ph / Hz	230/208 / 1 / 60	230/208 / 1 / 60	230/208 / 1 / 60	230/208 / 1 / 60
SEER		-	20	18	18	17
HSPF		-	10.5	10	10.5	10
EER		-	12.5	10	11.5	10.5
COP		-	4	3	3.26	3.46
MCA		A	24	24	35	35
Max. over-current protection (MOCP)		A	35	35	45	45
AHRI number		-	207497901	207497902	207497903	207497904
ENERGY STAR		-	✓	-	-	-
Refrigerant volume (R410A)		lb	9.3	9.3	12.3	12.3
Connection pipes	Liquid	in.	3/8	3/8	3/8	3/8
	Gas	in.	3/4	3/4	3/4	3/4
Net weight		lb (kg)	217 (98.5)	217 (98.5)	308 (140)	308 (140)
Sound level		dB (A)	55 (45 - 56)	57 (45 - 57)	58 (48 - 61)	58 (48 - 61)
Compressor power input		W	3680	3680	6000	6000
Compressor LRA		A	16	16	19	19
Compressor RLA		A	-	-	-	-
Fan motor power output		A	1.5	1.5	1.5 x 2	1.5 x 2
Dimension (L x H x I)	Product	in.	37 x 32 1/4 x 18 1/8	37 x 32 1/4 x 18 1/8	39 3/8 x 53 3/4 x 14 1/2	39 3/8 x 53 3/4 x 14 1/2
	Package	in.	42 x 38 5/16 x 22 9/16	42 x 38 5/16 x 22 9/16	45 x 59 3/8 x 18 7/8	45 x 59 3/8 x 18 7/8
Used heating power input	Nominal	W	1020	1100	1730	2000
	Min. – max.	W	160 - 1350	400 - 1400	580 - 2600	450 - 3000
Operating ambient temperature in cooling		°C (°F)	-15 to 54 (5 to 129)			
Operating ambient temperature in heating		°C (°F)	-30 to 24 (-22 to 75)			
Maximum pipe length between outdoor and indoor units		ft. (m)	99 (30)	99 (30)	99 (30)	99 (30)
Maximum height between outdoor and indoor units		ft. (m)	49 (15)	49 (15)	49 (15)	49 (15)

Models - Indoor Unit (Air Handler)

Product #			AH224	AH236	AH248	AH260
Electrical data	Power supply	V / Ph / Hz	230/208 / 1 / 60	230/208 / 1 / 60	230/208 / 1 / 60	230/208 / 1 / 60
	Supply Cooling	W	145	180	300	420
	Input current Cooling	A	1.10	1.33	2.13	2.74
	Max. over-current protection (MOCP)	A	15	15	15	15
	Voltage min./max.	V	187 / 253	187 / 253	187 / 253	187 / 253
Sound level		dB (A)	55	57	58	61
Refrigerant	Type	-	R410A			
	Control	-	Thermal expansion valve			
ENERGY STAR		-	✓	-	-	-
Air flow		cfm	960	1000	1380	1600
		m³/hr	1630	1700	2350	2720
HPS (High Static Pressure)	Nominal	Pa	25	37	50	50
		inH2O	0.1	0.148	0.2	0.2
	Range	Pa	0 to 250	0 to 250	0 to 250	0 to 250
		inH2O	0 to 1	0 to 1	0 to 1	0 to 1
Fan motor	Model	-	B-FGZ370C	B-FGZ370C	B-FGZ750C	B-FGZ750C
	Transmission type	-	Direct transmission			
	Speed	RPM	750	820	840	920
	Electric power	W	0.5	0.5	1	1
	Full load current (FLA)	A	3	3	5	5
Fan	Type	-	Centrifugal			
	Quantity	-	1			
Evaporator	Material	-	Copper tube with inner groove – Aluminum fins			
	Surface area	sq. ft. (m²)	4.09 (0.38)	4.09 (0.38)	5.49 (0.51)	5.49 (0.51)
	Pipe diameter	in.	3/8	3/8	3/8	3/8
	Fins type	-	Hydrophilic			
	Dimension (L x H x I)	in.	16 5/16 x 2 x 18	16 5/16 x 2 x 18	16 5/16 x 3 1/2 x 24	16 5/16 x 3 1/2 x 24
Operating temperature (cooling)		°C (°F)	18 to 27 (64.4 to 80.6)			
System operation control		-	Wired controller			
Dimension	Unit only (L x H x I)	in.	21 1/4 x 48 1/4 x 21 1/4	21 1/4 x 48 1/4 x 21 1/4	24 3/4 x 57 x 21 1/4	24 3/4 x 57 x 21 1/4
		mm	660 x 603 x 1280	660 x 603 x 1280	693 x 660 x 1508	693 x 660 x 1508
Weight	Net	lb (kg)	156 (71)	156 (71)	178 (81)	178 (81)
	Gross	lb (kg)	170 (77)	170 (77)	192 (87)	192 (87)

Models - Indoor Unit (Cased Coil)

Product #	Indoor Unit	GCAT24F-NAA	GCAT36F-NAA	GCAT48H-NAA	GCAT60H-NAA
	Outdoor Unit	FXD-ACD36	FXD-ACD36	FXD-ACD60	FXD-ACD60

Technical Performance

Power supply		V / Ph / Hz	208-230 / 1 / 60			
Cooling capacity	Nominal	W (BTU/hr)	24000	36000	48000	54000
	Min. – max.	W (BTU/hr)	3517 - 7034 (12000 - 24000)	5275 - 10844 (18000 - 37000)	9964 - 14067 (34000 - 48000)	10257 - 15826 (35000 - 54000)
Heating capacity	Nominal	W (BTU/hr)	24000	36000	48000	54000
	Min. – max.	W (BTU/hr)	3517 - 8792 (12000-30000)	5275 - 11137 (18000-38000)	9964 - 15240 (34000 - 52000)	10257 - 17584 (35000 - 60000)
SEER2		-	15.2	15.2	15.2	15.2
HSPF2	-	-	8.5	8.5	8.5	8.5
EER2		W/W	11	9.5	10	9.5
COP		W/W	4.2	3.5	3.6	3.5
AHRI number		-	213164338	213164339	213164340	213164341
ENERGY STAR		-	✓	-	-	-

Indoor Unit (Cased Coil)

Dehumidification		L/hr (pt/hr)	2.85 (6.03)	4.58 (9.68)	4.70 (9.94)	5.74 (12.13)
Air flow volume	Max.	cfm	800	1000	1230	1510
Product dimension	L x H x I	in. (mm)	17 1/2 x 23 x 21 1/4 (445 x 585 x 540)	17 1/2 x 23 x 21 1/4 (445 x 585 x 540)	24 1/2 x 28 1/2 x 21 1/4 (622 x 725 x 540)	24 1/2 x 28 1/2 x 21 1/4 (622 x 725 x 540)
Package dimension	L x H x I	in. (mm)	21 x 25 13/16 x 27 1/8 (535 x 655 x 690)	21 x 25 13/16 x 27 1/8 (535 x 655 x 690)	28 1/8 x 31 5/16 x 27 1/8 (714 x 795 x 689)	28 1/8 x 31 5/1 x 27 1/8 (714 x 795 x 689)
Refrigerant charge		oz	8.8	8.8	8.8	8.8
Weight	Net	lb (kg)	64 (29)	64 (29)	95 (43)	95 (43)
	Gross	lb (kg)	75 (34)	75 (34)	110 (50)	110 (50)
Pre-charge length		ft. (m)	31 (9.5)	31 (9.5)	31 (9.5)	31 (9.5)
Additional refrigerant charge		oz/ft. (g/m)	0.32 (29)	0.32 (29)	0.32 (29)	0.32 (29)
Liquid pipe outer diameter		in.	3/8	3/8	3/8	3/8
Gas pipe outer diameter		in.	3/4	3/4	3/4	3/4
Maximum length between outdoor and indoor units		ft. (m)	164 (50)	164 (50)	164 (50)	164 (50)
Maximum pipe height between outdoor and indoor units		ft. (m)	100 (30)	100 (30)	50 (15)	50 (15)