EDM4X, EDM2X
Product Specifications

EXPANSION VALVE COILS





ALL MODELS

- 1–1/2 thru 5 Tons
- Multiposition installation – upflow, downflow, or horizontal
- Available for R–410A or R–22
- Bolt–on TXV metering device factory installed on all models (equalizer tube brazed in)
- TXV and manifold positioned to the side for easier cleaning
- Innovative drain pan design for complete water removal
- Two additional condensate drain connectionsfor horizontal installation
- Two–piece delta plate for easier removal and cleaning
- Upflow cabinet widths and horizontal cabinet depths match flush with legacy (pre–2010) ICP gas furnaces
- Removable front access panel
- Easy slide–out coil for inspection
- Hemmed flanges for safer handling
- Foil faced insulation
- Non–sweat cabinet, even at extreme conditions
- Cabinets meet or exceed 2% air leakage codes
- Sturdy, 22 gauge, pre–painted steel cabinet
- Two UV light knock–outs provided on cabinet
- Aluminum hairpin/return–bend/fin “A” coil with the latest high–tech fin design

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WARRANTY*

R–22

- 5 year parts limited warranty

***** Applies to original purchaser/homeowner, some limitations may apply. See Warranty certificate for complete details.

R–410A

- 5 year parts limited warranty
  - With timely registration, an additional 5 year parts limited warranty

***** Applies to original purchaser/homeowner, some limitations may apply. See Warranty certificate for complete details.

COIL MODEL NUMBER IDENTIFICATION GUIDE

	E	D	M	4	X	18	B	AL	1

E = Evaporator

D = Deluxe — **TYPE**

M = Cased, Multiposition
D = Cased Upflow / Downflow — **APPLICATION**

2 = R–22
4 = Environmentally Sound R–410A — **REFRIGERANT**

X = TXV — **METERING DEVICE**

18 = 18,000 BTUH = 1–1/2 tons
24 = 24,000 BTUH = 2 tons
30 = 30,000 BTUH = 2–1/2 tons
36 = 36,000 BTUH = 3 tons
42 = 42,000 BTUH = 3–1/2 tons
48 = 48,000 BTUH = 4 tons
60 = 60,000 BTUH = 5 tons — **NOMINAL CAPACITY**

B = 15.5”
F = 19.1”
J = 22.8”
L = 24.5” — **WIDTH (matches furnace)**

AL = Aluminum — **SALES CODE / FEATURES**

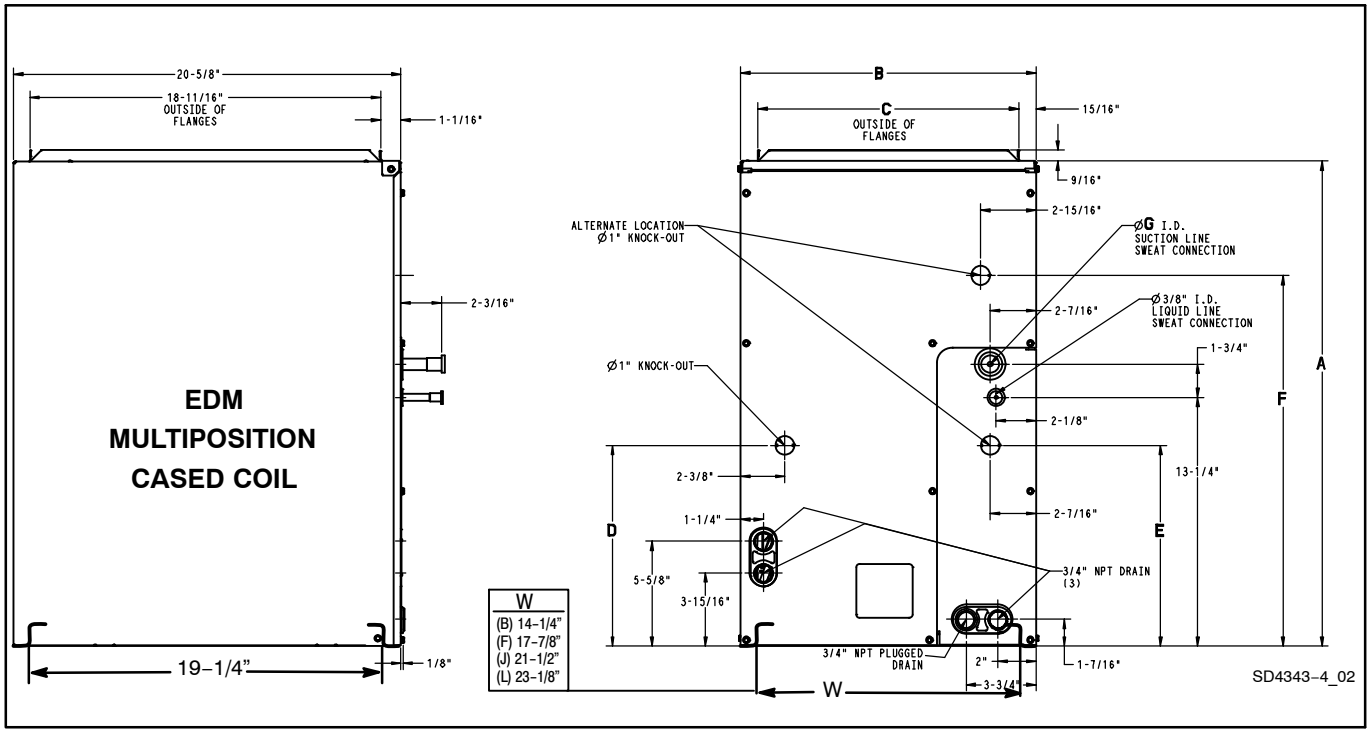
Engineering Revision

PHYSICAL DATA

	Model Size							
	18	24	30	36	42	48F	48J, 48L	60
TXV factory installed, hard shut–off, bi–flow type for heat pump application, non–adjustable superheat								
R–22 TXV Size	3 ton				5 ton			6 ton
R–410A TXV Size	2 ton			3 ton	4 ton	5 ton		
TXV Connections	TXV–to–coil = Bolt–on 3/4–20 UNF straight thread (factory assembled)							
	field line set to TXV = 3/8” (10mm) sweat (female)							
	equalizer–to–coil = brazed in (factory brazed)							
Nominal Acceptable CFM Range								
CFM (L/s) – min CFM (L/s) – max	525 (248) 625 (295)	700 (330) 900 (425)	875 (413) 1125 (531)	1050 (496) 1350 (637)	1225 (578) 1600 (755)	1400 (661) 1800 (849)		1750 (826) 2000 (944)
Coil Data (all coils 2 slab “A” configuration, lanced sine wave bare aluminum fin)								
Face Area ft^2 (m^2)	2.75 (0.26)	3.67 (0.34)	4.58 (0.43)	5.04 (0.47)	5.50 (0.51)	6.42 (0.60)	5.50 (0.51)	6.88 (0.64)
Each Slab H x W in. (mm)	12 x 16–1/2 (305 x 419)	16 x 16–1/2 (406 x 419)	20 x 16–1/2 (508 x 419)	22 x 16–1/2 (559 x 419)	24 x 16–1/2 (610 x 419)	28 x 16–1/2 (711 x 419)	24 x 16–1/2 (610 x 419)	30 x 16–1/2 (762 x 419)
Fins Per Inch	17	17	16	15	15	12		13
Refrigerant Line Connections (sweat)								
Liquid in. (mm)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)	3/8 (10)		3/8 (10)
Suction in. (mm)	5/8 (16)	5/8 (16)	3/4 (19)	3/4 (19)	7/8 (22)	7/8 (22)		7/8 (22)

ACCESSORIES

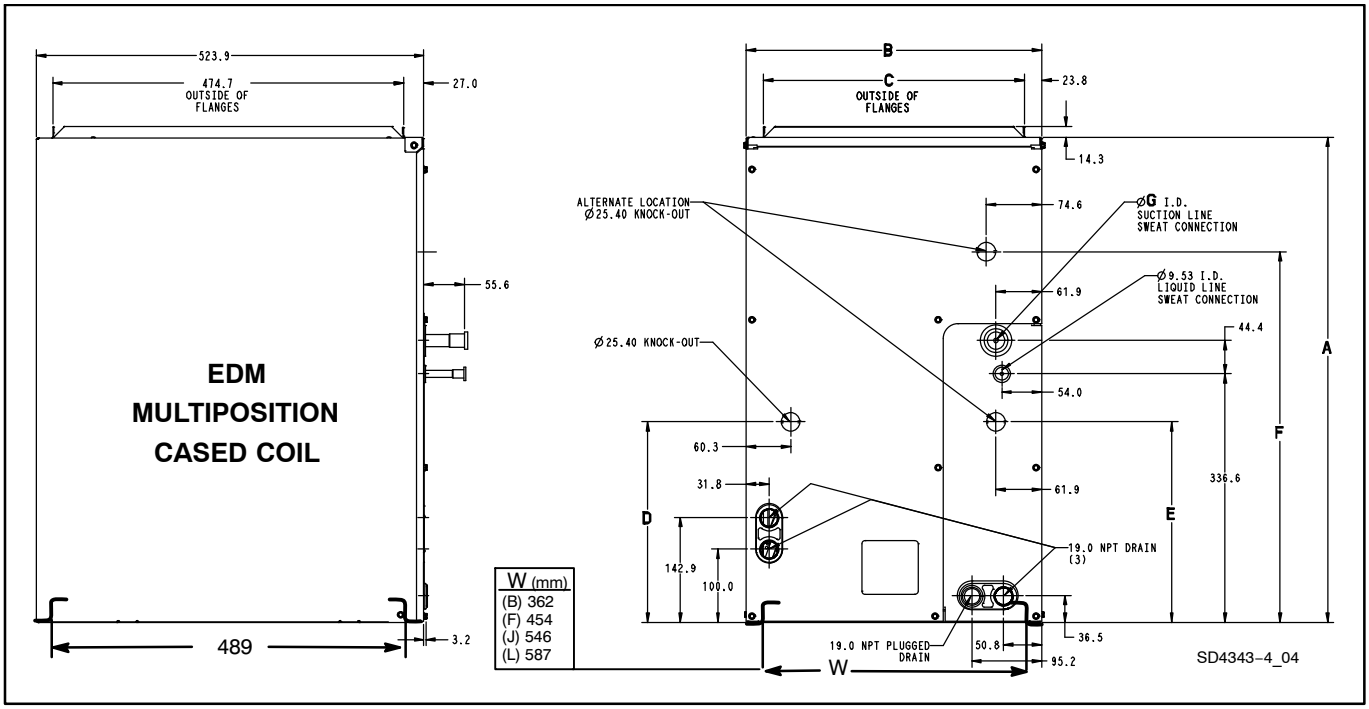
Description	Part Number	Use with models EDM
Fossil Fuel Kit	AXWR01DFC	ALL
Sub–Base (use when cased coil is mounted beneath a downflow gas or oil furnace on a combustible floor)	NAHH004SB	B models – 15–3/4” wide (400mm)
	NAHH005SB	F models – 19–3/8” wide (492mm)
	NAHH006SB	J models – 23” wide (584mm)
	NAHH009SB	L models– 24–5/8” wide (625mm)
Coil Adapter for Downflow Furnaces (when used with multiposition furnace in downflow application)	NAHA001CA	ALL
PVC Condensate Trap Kit (box of 50)	EBAC01CTK	ALL



DIMENSIONAL DATA – EDM4X, EDM2X

Model	Size (tons)	All Dimensions Inches (English)							Shipping Weight (lbs)
		A	B	C	D	E	F	G	Aluminum
EDM *X 18B AL	1-1/2	25-7/8	15-5/8	13-7/8	10-11/16	10-11/16	–	5/8	55.5
EDM *X 24B AL	2	25-7/8	15-5/8	13-7/8	10-11/16	10-11/16	–	5/8	56.5
EDM *X 24F AL	2	25-7/8	19-1/4	17-1/2	10-11/16	10-11/16	–	5/8	60.0
EDM *X 30B AL	2-1/2	25-7/8	15-5/8	13-7/8	19-3/4	–	19-3/4	3/4	60.0
EDM *X 30F AL	2-1/2	25-7/8	19-1/4	17-1/2	10-11/16	–	19-3/4	3/4	64.0
EDM *X 36B AL	3	29-3/4	15-5/8	13-7/8	19-3/4	–	19-3/4	3/4	66.0
EDM *X 36F AL	3	29-3/4	19-1/4	17-1/2	19-3/4	–	19-3/4	3/4	72.5
EDM *X 36J AL	3	29-3/4	22-7/8	21-1/8	19-3/4	–	19-3/4	3/4	77.0
EDM *X 42F AL	3-1/2	29-3/4	19-1/4	17-1/2	19-3/4	–	19-3/4	7/8	77.0
EDM *X 42J AL	3-1/2	29-3/4	22-7/8	21-1/8	19-3/4	–	19-3/4	7/8	78.5
EDM *X 42L AL	3-1/2	29-3/4	24-1/2	22-3/4	19-3/4	–	19-3/4	7/8	80.5
EDM *X 48F AL	4	35	19-1/4	17-1/2	19-3/4	–	19-3/4	7/8	93.0
EDM *X 48J AL	4	29-3/4	22-7/8	21-1/8	19-3/4	–	19-3/4	7/8	86.0
EDM *X 48L AL	4	29-3/4	24-1/2	22-3/4	19-3/4	–	19-3/4	7/8	87.3
EDM *X 60J AL	5	35	22-7/8	21-1/8	19-3/4	–	19-3/4	7/8	91.0
EDM *X 60L AL	5	35	24-1/2	22-3/4	19-3/4	–	19-3/4	7/8	100.0

* = 2 for R–22
* = 4 for R–410A



DIMENSIONAL DATA – EDM4X, EDM2X

Model	Size (tons)	All Dimensions mm (SI Metric)							Shipping Weight (kg)
		A	B	C	D	E	F	G	Aluminum
EDM *X 18B AL	1–1/2	657	397	352	272	272	–	16	25
EDM *X 24B AL	2	657	397	352	272	272	–	16	25
EDM *X 24F AL	2	657	489	445	272	272	–	16	27
EDM *X 30B AL	2–1/2	657	397	352	502	–	502	19	27
EDM *X 30F AL	2–1/2	657	489	445	272	–	502	19	28
EDM *X 36B AL	3	756	397	352	502	–	502	19	29
EDM *X 36F AL	3	756	489	445	502	–	502	19	32
EDM *X 36J AL	3	756	581	537	502	–	502	19	34
EDM *X 42F AL	3–1/2	756	489	445	502	–	502	22	34
EDM *X 42J AL	3–1/2	756	581	537	502	–	502	22	35
EDM *X 42L AL	3–1/2	756	622	579	502	–	502	22	35
EDM *X 48F AL	4	889	489	445	502	–	502	22	40
EDM *X 48J AL	4	756	581	537	502	–	502	22	38
EDM *X 48L AL	4	756	622	579	502	–	502	22	38
EDM *X 60J AL	5	889	581	537	502	–	502	22	40
EDM *X 60L AL	5	889	622	578	502	–	502	22	44

* = 2 for R–22
* = 4 for R–410A

Static Pressure Drop Across Coil at a Given CFM

Coil Size	CFM Across Coil	Static Pressure Drop Across Coil (Inches Water Column)	
		Dry	Wet
18B 1–1/2 tons	500	0.096	0.106
	600	0.127	0.140
	700	0.161	0.183
24B 2 tons	700	0.134	0.141
	800	0.166	0.176
	900	0.200	0.215
24F 2 tons	700	0.110	0.118
	800	0.134	0.146
	900	0.160	0.176
30B 2–1/2 tons tons	800	0.137	0.143
	900	0.169	0.174
	1000	0.204	0.211
	1100	0.241	0.251
30F 2–1/2 tons	800	0.101	0.106
	900	0.121	0.129
	1000	0.143	0.154
	1100	0.168	0.181
36B 3 tons	1000	0.188	0.202
	1100	0.224	0.240
	1200	0.262	0.281
	1300	0.303	0.325
	1400	0.349	0.374
36F 3 tons	1000	0.133	0.139
	1100	0.154	0.163
	1200	0.177	0.189
	1300	0.203	0.216
	1400	0.227	0.245
36J 3 tons	1000	0.104	0.106
	1100	0.121	0.124
	1200	0.139	0.144
	1300	0.159	0.166
	1400	0.181	0.190
42F 3–1/2 tons	1200	0.180	0.208
	1300	0.201	0.231
	1400	0.228	0.275
	1500	0.267	0.314
	1600	0.291	0.348

Coil Size	CFM Across Coil	Static Pressure Drop Across Coil (Inches Water Column)	
		Dry	Wet
42J 3–1/2 tons	1200	0.129	0.137
	1300	0.148	0.159
	1400	0.168	0.180
	1500	0.189	0.203
	1600	0.211	0.228
42L 3–1/2 tons	1200	0.114	0.142
	1300	0.130	0.161
	1400	0.146	0.182
	1500	0.164	0.202
	1600	0.182	0.222
48F 4 tons	1400	0.250	0.263
	1500	0.284	0.297
	1600	0.320	0.336
	1700	0.358	0.376
	1800	0.398	0.418
48J 4 tons	1400	0.192	0.196
	1500	0.219	0.225
	1600	0.245	0.253
	1700	0.273	0.283
	1800	0.303	0.314
48L 4 tons	1400	0.180	0.193
	1500	0.198	0.214
	1600	0.222	0.241
	1700	0.247	0.270
	1800	0.275	0.296
60J 5 tons	1700	0.260	0.285
	1800	0.288	0.315
	1900	0.316	0.346
	2000	0.347	0.381
60L 5 tons	1700	0.232	0.263
	1800	0.256	0.291
	1900	0.283	0.321
	2000	0.308	0.354