



Air Conditioning & Heating

PRODUCT SPECIFICATIONS



1½ TO 5 Ton
DEDICATED DOWNFLOW



ADPF

THREE-SPEED AIR HANDLER

The Goodman® brand ADFP Dedicated Downflow Three-Speed Air Handler is suitable for use with refrigerants R-410A and R-22. The unit features a check flowrater expansion device and may be installed in a variety of locations.

Standard Features

- Suitable for use with refrigerants R-410A & R-22
- Check flowrater expansion device
- Direct-drive, multi-speed motor
- Transformer and blower time-delay on all units
- Dedicated downflow requires no modification in the field
- ARI Certified
- ETL Listed

Cabinet Features

- Fully insulated, painted steel cabinet with attractive Architectural Gray finish
- Built-in coil has downflow drain pan with secondary drain connections
- Power supply entry at top
- Low-voltage entry on left side and top

Accessories

- 3 kW to 21 kW electric heat kits available as field-installed options



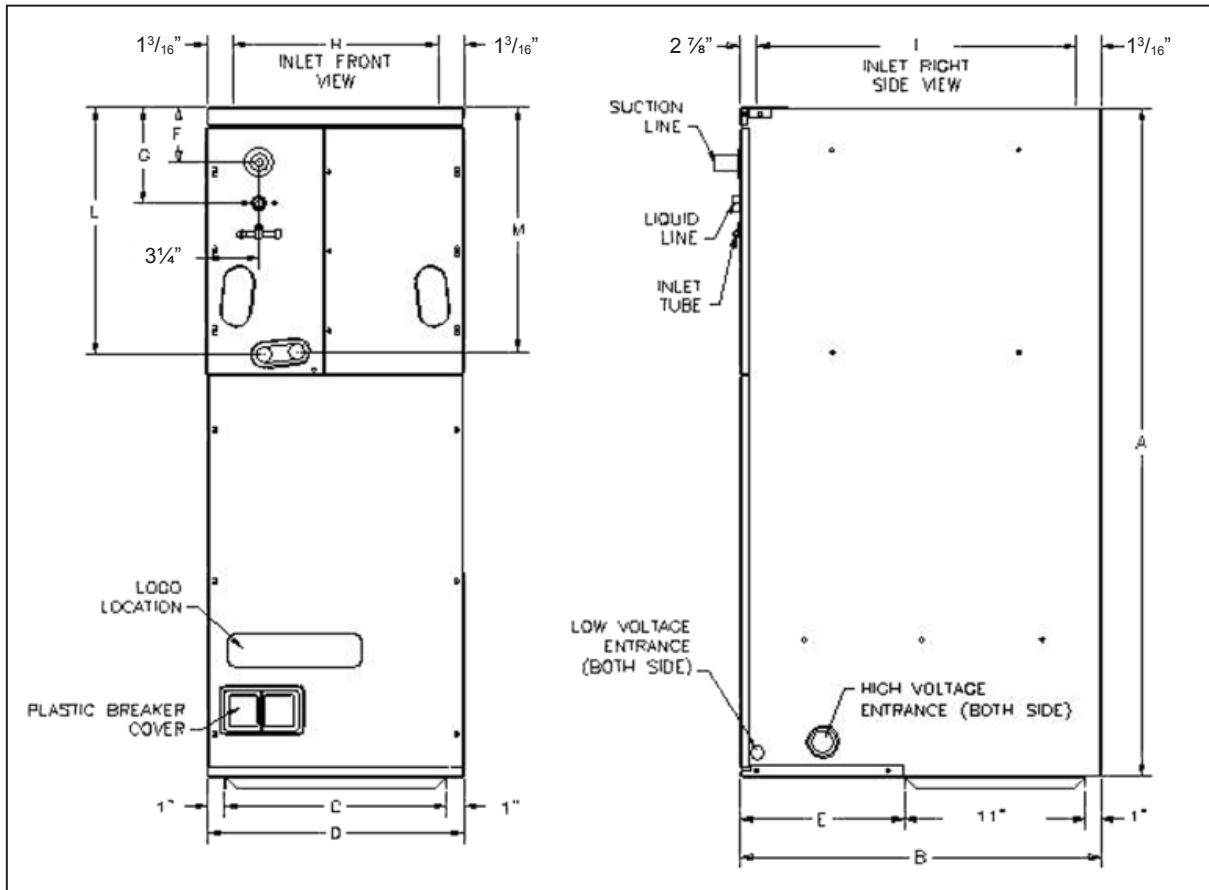
NOMENCLATURE

	A	D	P	F	3642	1	6	AA	
	1	2	3	4	5,6,7,8	9	10	11,12	
Brand	A Single-piece Air Handler								Engineering * Major/ Minor Revisions * Not used for inventory management
Unit Application	C Ceiling Mount PSC Motor	D Downflow PSC Motor	E Multi-Position Variable-Speed Motor	R Multi-Position PSC Motor	S Multi-Position EEM Motor	W Wall Mount PSC Motor			Refrigerant Charge No Digit = R-22 only 6 = R-410A or R-22
Cabinet Finish	U Unpainted	P Painted	N Uncased						Electrical 1 208/240 V, 1 Phase, 60 Hz
Expansion Device	F Flowrater	T Expansion Valve							Nominal Capacity Range @ 13 SEER
									Multi-Position & Downflow Applications
									3642 3-3½ Tons
									1830 1½-3½ Tons
									1729 1½ to 2½ Tons (for Export Systems)
									Ceiling Mount & Wall Mount Applications
									(Nominal Cooling Capacity/ Electric Heat kW)
									1805 1½ Tons Cooling/ 5 kW Electric Heat
									2405 2 Tons Cooling/ 5 kW Electric Heat
									3608 3 Tons Cooling/ 8 kW Electric Heat

SPECIFICATIONS

	ADPF182416	ADPF304216	ADPF486016
Blower			
Diameter	9½"	10⅝"	10⅝"
Width	6"	8"	10⅝"
Coil Drain Connection FPT	¾"	¾"	¾"
Service Valve			
Liquid	⅜"	⅜"	⅜"
Suction	¾"	⅞"	⅞"
Electrical Data			
Voltage	208/240	208/240	208/240
Min Circuit Ampacity	2.1/2.1	3.7/3.7	5.4/5.4
Max. Overcurrent Protection	15/15 amps	15/15 amps	15/15 amps
Min./Max. VAC	197/253	197/253	197/253
Blower Motor			
FLA	1.7	2.95	4.3
HP	⅓	½	¾
Ship Weight (lbs)	100	144	160

DIMENSIONS



Model	A	B	C	D	E	F	G	H	I	L	M
ADPF182416	42 1/8"	22"	13 1/2"	15 1/2"	10"	3 1/2"	6 1/16"	13 1/8"	17 15/16"	15 1/2"	15 5/16"
ADPF304216	53 3/4"	24"	20"	22"	12"	9 1/4"	11 13/16"	19 5/8"	19 15/16"	21 7/16"	21 1/4"
ADPF486016	53 3/4"	24"	20"	22"	12"	9 1/4"	11 13/16"	19 5/8"	19 15/16"	21 7/16"	21 1/4"

BLOWER PERFORMANCE

Model	Speed	CFM delivered against External Static Pressure				
		0.1"	0.2"	0.3"	0.4"	0.5"
ADPF182416	High	1,155	1,090	1,025	950	895
	Med	875	830	790	750	715
	Low	640	610	570	535	490
ADPF304216	High	1,700	1,680	1,645	1,610	1,535
	Med	1,500	1,480	1,440	1,380	1,325
	Low	1,345	1,320	1,275	1,230	1,195
ADPF486016	High	2,135	2,080	1,985	1,900	1,805
	Med	1,980	1,935	1,875	1,775	1,675
	Low	1,715	1,670	1,650	1,590	1,530

Note: Assumes dry coil with filter in place; SCFM correction for wet coil = 4%

ACCESSORIES

EXPANSION VALVE KITS FOR AIR CONDITIONING AND HEAT PUMP APPLICATIONS

FOR R-22 SYSTEMS

Valve	Description	Used with Outdoor Units below
TX3N2	Non-bleed valve	3 Ton > Air Conditioner & Heat Pump
TX5N2	Non-bleed valve	3½ Ton < Air Conditioner & Heat Pump

FOR R-410A SYSTEMS

Valve	Description	Used with Outdoor Units below
TX3N4	Non-bleed valve	3 Ton > Air Conditioner & Heat Pump
TX5N4	Non-bleed valve	3½ Ton < Air Conditioner & Heat Pump

HEAT KIT SELECTION

	ADPF182416	ADPF304216	ADPF486016
HKR-03*	X	X	X
HKR-05*, HKR-05C*	X	X	X
HKR-06*	X	X	X
HKR-08*, HKR-08C*	X ¹	X	X
HKR-10*, HKR-10C*	X ¹	X	X
HKR-15C*	X ²	X ³	X
HKR-20C*		X ³	X
HKR-21C*		X ³	X
^ HKR3-15*		X ³	X
^ HKR3-20*		X ³	X

Notes:

* Revision level that may or may not be designated

C Circuit breaker option

^ Heat kit requires three-phase power supply

¹ Air handler must either be on medium or high speed

² Air handler must be on high speed

³ For static pressure of 0.6 or higher, air handler must be on medium or high speed

FILTERS

ADPF	Filter #	Qty Required
1824	FIL 18-32	1
3042	FIL 48-61	1
4860	FIL 48-61	1

PRODUCT SPECIFICATIONS

NOTES

