

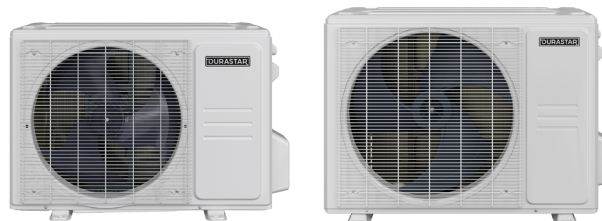


FRONT RETURN AIR HANDLER AND SIDE DISCHARGE HEAT PUMP SYSTEM

SUBMITTAL COVER SHEET

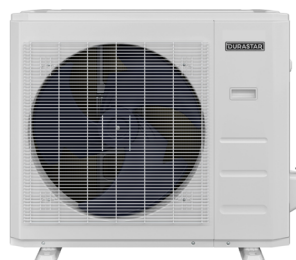
PROJECT NAME _____
LOCATION _____
ARCHITECT _____
ENGINEER _____
CONTRACTOR _____
REFERENCE _____
SUBMITTED BY _____ DATE _____

Front Return Air Handler Model Number	Outdoor Unit Model Number	BTU
DRUF1820S2A	DRU1U18S2A	18K
DRUF2420S2A	DRU1U24S2A	24K
DRUF3022S2A	DRU1U30S2A	30K
DRUF3622S2A	DRU1U36S2A	36K



18K

24K



30K, 36K

PRODUCT FEATURES

- High-efficiency constant volume variable speed motor
- Several tax credit eligible, ENERGY STAR certified, pairings
- 115V convertible air handler
- Built-in dehumidifier, humidifier, and IAQ ports
- All-aluminum coil
- Front and bottom return options
- Anti-corrosive coil fin coating
- Low ambient heating down to -13°F
- Low ambient cooling down to -13°F
- Refrigerant leak detection system installed
- Base pan heater installed
- Compatible with DRSTAT101 communicating thermostat (purchased separately)
- Automatic airflow configuration technology
- Multiple operation modes (Cool, Heat, Aux, Dry, Fan, Auto)
- 24V thermostat compatible
- Optional electric heat (purchased separately)



Specifications are subject to change without notice.

© 2026 Ferguson Enterprises LLC

www.durastar.com



FRONT RETURN AIR HANDLER AND SIDE DISCHARGE HEAT PUMP SYSTEM

SPECIFICATIONS

Indoor Unit Model	DRUF1820S2A	DRUF2420S2A	DRUF3022S2A	DRUF3622S2A
Outdoor Unit Model	DRU1U18S2A	DRU1U24S2A	DRU1U30S2A	DRU1U36S2A

Power Supply

Indoor Unit Model		DRUF1820S2A	DRUF2420S2A	DRUF3022S2A	DRUF3622S2A
Outdoor Unit Model		DRU1U18S2A	DRU1U24S2A	DRU1U30S2A	DRU1U36S2A
Attribute	Unit				
Indoor Power Supply	(Volts; Hz; Phase)	115/208/230V; 60 Hz; 1 Ph	115/208/230V; 60 Hz; 1 P h	115/208/230V; 60 Hz; 1 Ph	115/208/230V; 60 Hz; 1 Ph
Outdoor Power Supply	(Volts; Hz; Phase)	208/230V; 60 Hz; 1 Ph	208/230V; 60 Hz; 1 Ph	208/230V; 60 Hz; 1 Ph	208/230V; 60 Hz; 1 Ph

Cooling Ratings and Capacities

Indoor Unit Model		DRUF1820S2A	DRUF2420S2A	DRUF3022S2A	DRUF3622S2A
Outdoor Unit Model		DRU1U18S2A	DRU1U24S2A	DRU1U30S2A	DRU1U36S2A
Attribute	Unit				
SEER2	BTU/h/W	18.5	17.4	18.6	16.7
EER2	BTU/h/W	11.5	10.8	11.0	10.2
Rated Cooling Capacity 95°F (35°C)	BTU/h	18000	24000	30000	36000
Cooling Capacity Range	BTU/h	5900 – 20600	10100 – 27600	10100 – 34400	11800 – 39000
Cooling Input	W	1565	2222	2727	3529
Cooling Current	A	7.0	9.8	11.9	15.4
Cooling Input Range	W	360 – 1820	830 – 2850	670 – 3130	760 – 4090
Cooling Current Range	A	2.5 – 8.0	3.7 – 13.5	4.7 – 13.8	3.5 – 18.0
Cooling at 109°F (43°C)	BTU/h	15600	24000	29700	32800
Cooling at 5°F (-15°C)	BTU/h	21600	26000	35200	42500
Moisture Removal	Pints/day (L/h)	94.8 (1.87)	126.8 (2.50)	151.7 (2.99)	170.9 (3.37)

Heating Ratings and Capacities

Indoor Unit Model		DRUF1820S2A	DRUF2420S2A	DRUF3022S2A	DRUF3622S2A
Outdoor Unit Model		DRU1U18S2A	DRU1U24S2A	DRU1U30S2A	DRU1U36S2A
Attribute	Unit				
HSPF2-4	BTU/h/W	9.4	10.4	8.7	9.3
HSPF2-5	BTU/h/W	7.2	8.1	6.7	7.5
Rated COP	W/W	3.55	3.80	3.50	3.30
Rated Heating Capacity 47°F (8°C)	BTU/h	18000	25000	31000	37000
Heating Capacity Range	BTU/h	3900 – 19600	7000 – 32200	6500 – 31900	6900 – 41000
Heating Input	W	1485	1980	2596	3189
Heating Current	A	6.9	8.6	11.4	13.9
Heating Input Range	W	275 – 1610	455 – 2590	400 – 2550	490 – 3710
Heating Current Range	A	1.5 – 7.1	2.5 – 11.4	2.2 – 11.3	2.7 – 16.3



FRONT RETURN AIR HANDLER AND SIDE DISCHARGE HEAT PUMP SYSTEM

SPECIFICATIONS

Heating Ratings and Capacities (continued)

Indoor Unit Model		DRUF1820S2A	DRUF2420S2A	DRUF3022S2A	DRUF3622S2A
Outdoor Unit Model		DRU1U18S2A	DRU1U24S2A	DRU1U30S2A	DRU1U36S2A
Attribute	Unit				
Heating at 17°F (-8.33°C) Rated Capacity (H32)	BTU/h	12600	20800	18200	24800
Heating at 17°F (-8.33°C) COP (H32)	W/W	2.70	2.80	2.42	2.63
Heating at 5°F (-15°C) Rated Capacity (H42)	BTU/h	11400	19600	18700	29200
Heating at 5°F (-15°C) COP (H42)	W/W	2.10	1.96	1.99	1.99
Heating at -4°F (-20°C) Rated Capacity	BTU/h	7800	16000	16500	25800
Heating at -13°F (-25°C) Rated Capacity	BTU/h	6400	13600	14800	19700

Electrical Specifications

Indoor Unit Model		DRUF1820S2A	DRUF2420S2A	DRUF3022S2A	DRUF3622S2A
Outdoor Unit Model		DRU1U18S2A	DRU1U24S2A	DRU1U30S2A	DRU1U36S2A
Attribute	Unit				
Indoor Minimum Circuit Ampacity Without Heater (115V/ 208/230V)	A	5.0/4.0	5.0/4.0	8.0/6.0	8.0/6.5
Indoor Max Fuse Without Heater (MOCP)	A	15	15	15	15
Outdoor Minimum Circuit Ampacity	A	16.0	19.0	22.5	24.0
Outdoor Max Fuse (MOCP)	A	20	20	25	30
Minimum Communication Wiring Gauge	AWG	20	20	20	20
Indoor Fan Motor RLA	A	3.0	3.0	4.5	5
Outdoor Fan Motor RLA	A	0.8	1.0	1.1	1.5
Outdoor Compressor RLA	A	10.0	14.0	17.0	17.5
Indoor Motor Output	W	250	250	375	375
Outdoor Fan Motor Output	W	34	80	120	120



NOTE

See page 8 for electrical specifications when this air handler is installed with an auxiliary electric heater.



FRONT RETURN AIR HANDLER AND SIDE DISCHARGE HEAT PUMP SYSTEM

SPECIFICATIONS

Refrigerant Specifications

Indoor Unit Model		DRUF1820S2A	DRUF2420S2A	DRUF3022S2A	DRUF3622S2A
Outdoor Unit Model		DRU1U18S2A	DRU1U24S2A	DRU1U30S2A	DRU1U36S2A
Attribute	Unit				
Design Pressure	PSI	550 / 340	550 / 340	550 / 340	550 / 340
Outdoor Refrigerant Type		R-454B	R-454B	R-454B	R-454B
Outdoor Refrigerant Charge	oz (kg)	51.15 (1.45)	74.08 (2.10)	91.71 (2.60)	116.40 (3.30)
Additional Refrigerant Charge	oz/ft (g/m)	0.69 (65)	0.69 (65)	0.69 (65)	0.69 (65)
Outdoor Throttle Type		EEV	EEV	EEV	EEV
Liquid Side	inch (mm)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Gas Side	inch (mm)	3/4 (19)	3/4 (19)	3/4 (19)	3/4 (19)
Max. Refrigerant Pipe Length	ft (m)	98.4 (30)	164 (50)	164 (50)	246 (75)
Max. Height Difference (IDU vs ODU)	ft (m)	65.6 (20)	82 (25)	82 (25)	98.4 (30)
Outdoor Compressor Type		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
Outdoor Refrigerant Oil		VG74	VG74	VG74	VG74
Outdoor Refrigerant Oil Charge	mL	440	620	670	1000

Air Flow and Motor Speeds

Indoor Unit Model		DRUF1820S2A	DRUF2420S2A	DRUF3022S2A	DRUF3622S2A
Outdoor Unit Model		DRU1U18S2A	DRU1U24S2A	DRU1U30S2A	DRU1U36S2A
Attribute	Unit				
Indoor Air Flow (Turbo/Hi/Mi/Lo)	CFM	618.0 / 576.8 / 529.7 / 488.5	824.0 / 759.3 / 694.5 / 629.8	988.8 / 894.7 / 806.4 / 712.2	1189.0 / 1083.0 / 971.2 / 865.2
Indoor Air Flow (Turbo/Hi/Mi/Lo)	m ³ /h	1050 / 980 / 900 / 830	1400 / 1290 / 1180 / 1070	1680 / 1520 / 1370 / 1210	2020 / 1840 / 1650 / 1470
Indoor Noise Level (Turbo/Hi/Mi/Lo)	dB(A)	48.0 / 47 / 45 / 39	53.0 / 51 / 48 / 37.5	50.5 / 50 / 48 / 36	50.5 / 50.5 / 48 / 36.5
Outdoor Air Flow	CFM	1450.9	1765.8	3001.9	2413.3
Outdoor Air Flow	m ³ /h	2465	3000	5100	4100
Outdoor Fan Motor Speed (Hi/Mid/Lo)	r/min	840/700/650	810/700/450	850/700/500	800/750/500
Outdoor Noise Level (Hi)	dB(A)	55.5	59.0	61.0	62.0

Operational Temperatures

Indoor Unit Model		DRUF1820S2A	DRUF2420S2A	DRUF3022S2A	DRUF3622S2A
Outdoor Unit Model		DRU1U18S2A	DRU1U24S2A	DRU1U30S2A	DRU1U36S2A
Attribute	Unit				
Indoor Operating Range (Cooling)	°F (°C)	60 - 90 (16 - 32)	60 - 90 (16 - 32)	60 - 90 (16 - 32)	60 - 90 (16 - 32)
Outdoor Operating Range (Cooling)	°F (°C)	-13 - 122 (-25 - 50)	-13 - 122 (-25 - 50)	-13 - 122 (-25 - 50)	-13 - 122 (-25 - 50)
Indoor Operating Range (Heating)	°F (°C)	32 - 86 (0 - 30)	32 - 86 (0 - 30)	32 - 86 (0 - 30)	32 - 86 (0 - 30)
Outdoor Operating Range (Heating)	°F (°C)	-13 - 75 (-25 - 24)	-13 - 75 (-25 - 24)	-13 - 75 (-25 - 24)	-13 - 75 (-25 - 24)

Specifications are subject to change without notice.

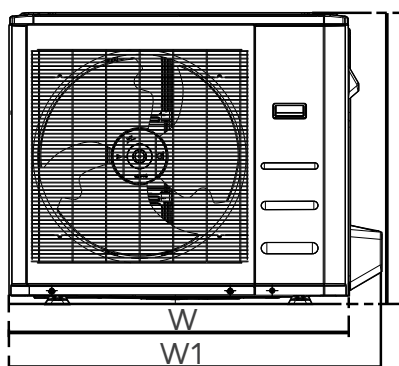
© 2026 Ferguson Enterprises LLC

www.durastar.com

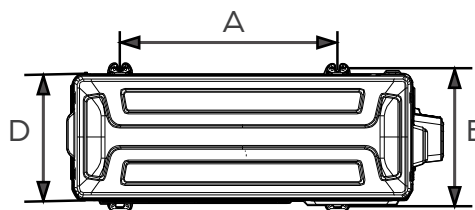
Package Dimensions and Weight

Indoor Unit Model		DRUF1820S2A	DRUF2420S2A	DRUF3022S2A	DRUF3622S2A
Outdoor Unit Model		DRU1U18S2A	DRU1U24S2A	DRU1U30S2A	DRU1U36S2A
Attribute	Unit				
Indoor Unit Net/Gross Weight	lb	111.33 / 91.49	111.33 / 91.49	110.23 / 131.39	109.57 / 130.73
Indoor Unit Net/Gross Weight	kg	50.5 / 41.5	50.5 / 41.5	50 / 59.6	49.7 / 59.3
Indoor Package Dimension (WxDxH)	inch	22.83 x 19.49 x 42.91	22.83 x 19.49 x 42.91	24.61 x 22.83 x 46.97	24.61 x 22.83 x 46.97
Indoor Package Dimension (WxDxH)	mm	580 x 495 x 1090	580 x 495 x 1090	625 x 580 x 1193	625 x 580 x 1193
Outdoor Unit Net/Gross Weight	lb	77.16/ 83.77	77.16/ 83.77	141.76/ 152.34	153.22/ 163.58
Outdoor Unit Net/Gross Weight	kg	35/ 38	35/ 38	64.3/ 69.1	69.5/ 74.2
Outdoor Package Dimension (WxDxH)	inch	36.02 x 14.57 x 24.21	36.02 x 14.57 x 24.21	42.91 x 19.68 x 34.84	42.91 x 19.68 x 34.84
Outdoor Item Package Dimension (WxDxH)	mm	915 x 370 x 615	915 x 370 x 615	1090x500x885	1090 x 500 x 885

Outdoor Unit Dimensions



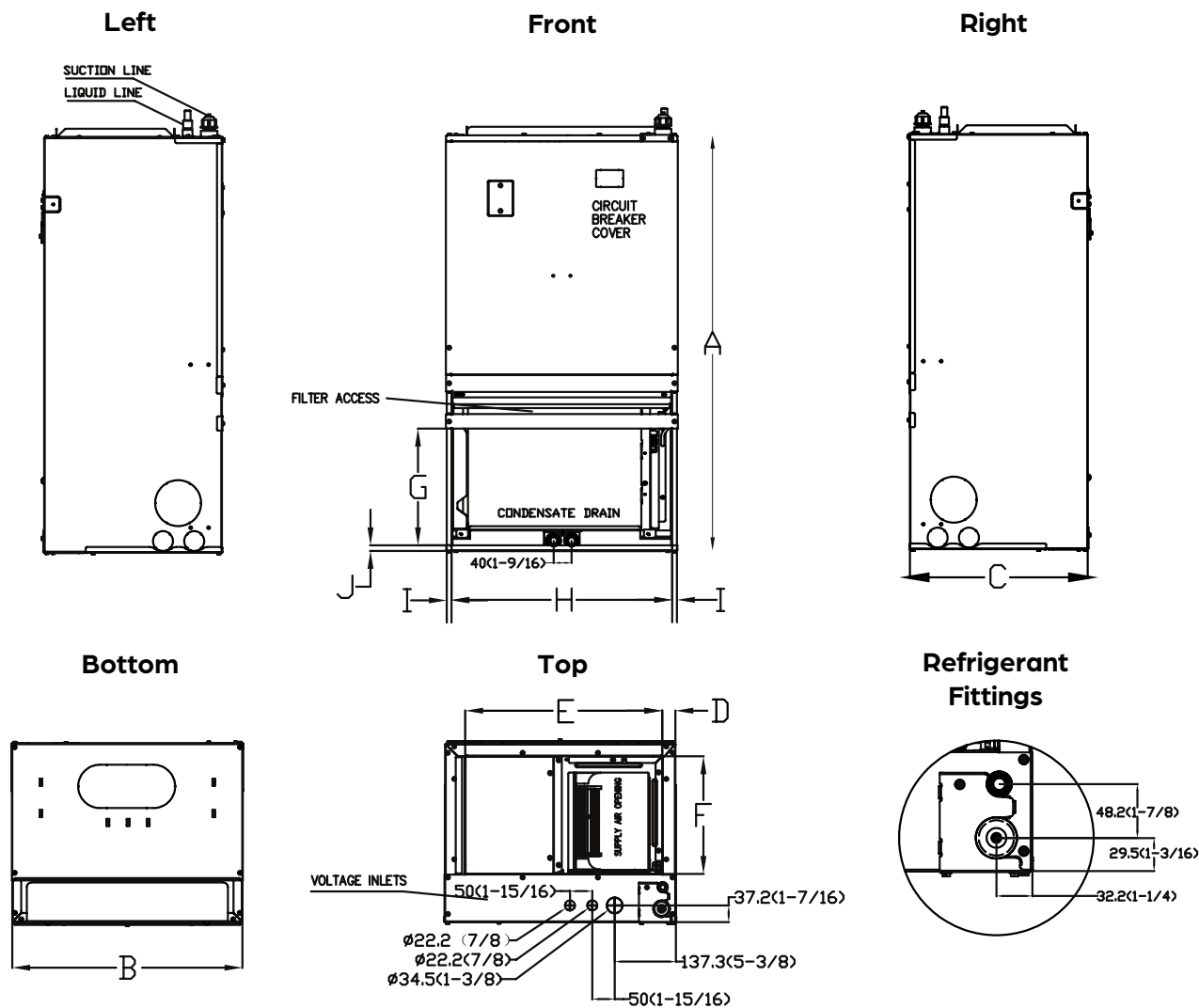
Front View



Top View

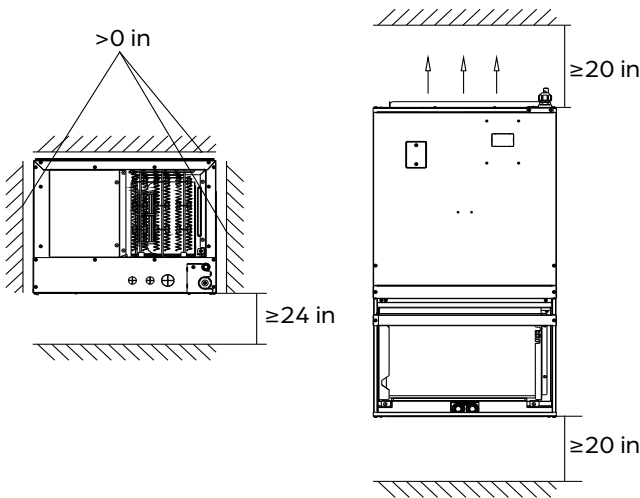
Model	W		W1		H		D		A		B	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
DRU1U18S2A	31-3/4	805	34-3/8	874	21-3/4	554	13	330	20-1/8	511	12-1/2	317
DRU1U24S2A	35	890	37-5/8	955	26-1/2	673	13-7/16	342	26-1/8	663	13-3/4	348
DRU1U30S2A	37-1/4	946	40-1/2	1030	31-15/16	810	16-3/16	410	26-1/2	673	15-7/8	403
DRU1U36S2A	37-1/4	946	40-1/2	1030	31-15/16	810	16-3/16	410	26-1/2	673	15-7/8	403

Indoor Unit Dimensions

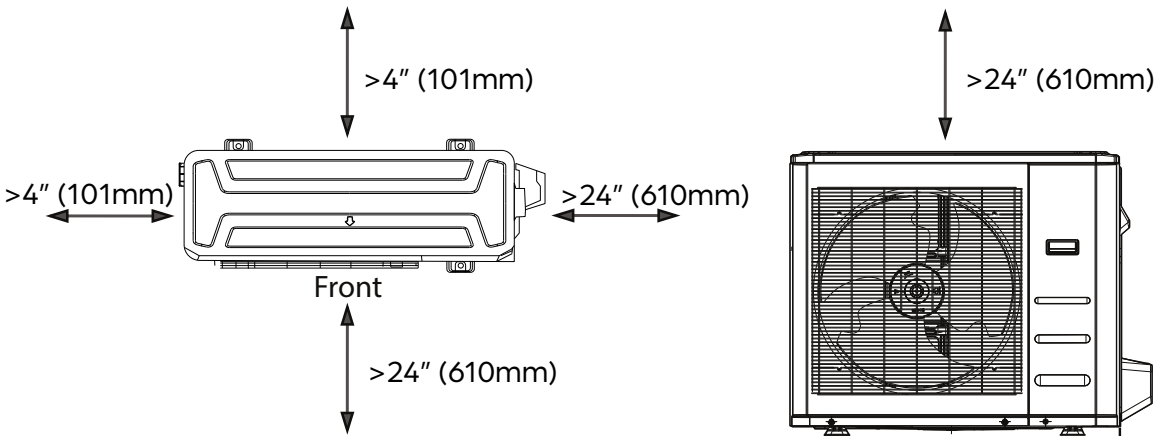


Model		DRUF1820S2A		DRUF2420S2A		DRUF3022S2A		DRUF3622S2A	
Units		inch	mm	inch	mm	inch	mm	inch	mm
A	Model Height	36.54	928	36.54	928	40.04	1017	40.04	1017
B	Model Width	20.28	515	20.28	515	22.01	559	22.01	559
C	Model Depth	15.71	399	15.71	399	19.02	483	19.02	483
D	Supply Air Opening Clearance	1.1	29.1	1.1	29.1	1.6	41	1.6	41
E	Supply Air Opening Width	17.4	442	17.4	442	18.8	478.6	18.8	478.6
F	Supply Air Opening Depth	10.4	265.2	10.4	265.2	9.3	235.4	9.3	235.4
G	Return Air Opening Height	10.3	261	10.3	261	13.1	332.5	13.1	332.5
H	Return Air Opening Width	19.4	493.8	19.4	493.8	21.2	537.8	21.2	537.8
I	Return Air Opening Side Flange	.42	10.6	.42	10.6	.42	10.6	.42	10.6
J	Return Air Opening Bottom Flange	.47	12	.47	12	.63	16	.63	16

Indoor Unit Clearances



Outdoor Unit Clearances



NOTE

Illustrations in this document are for explanatory purposes. The actual shape of your equipment may vary slightly.

Heater Compatibility

Model	3kW	5kW	8kW	10kW
DRUF1820S2A	Y	Y	Y	Y
DRUF2420S2A	Y	Y	Y	Y
DRUF3022S2A	Y	Y	Y	Y
DRUF3622S2A	Y	Y	Y	Y



FRONT RETURN AIR HANDLER AND SIDE DISCHARGE HEAT PUMP SYSTEM

AUXILIARY HEATER SPECIFICATIONS

HEATER ELECTRICAL SPECIFICATIONS

OPTION A: HEATER AND AIR HANDLER POWERED SEPERATELY

HEATER PART MODEL NUMBER (kW)	ELECTRIC RATING (kW) (208/230V)	BTUH (208/230V)	CIRCUIT 1 (208/230V)		
			HEATER AMPS (1)	MCA (1)	MOCP (1)
DRUFHTR03BRKB (3kW)	2.25/ 2.75	6,830/ 10,240	10.8/ 12.0	14.0/ 16.0	15.0/ 20.0
DRUFHTR05BRKB (5kW)	3.75/ 4.60	12,795/ 17,060	18.0/ 20.0	23.0/ 27.0	25.0/ 30.0
DRUFHTR08BRKB (8kW)	6.00/ 7.35	19,200/ 25,600	28.8/ 32.0	37.0/ 42.0	40.0/ 45.0
DRUFHTR10BRKB (10kW)	7.50/ 9.20	25,575/ 34,100	36.1/ 40.0	46.0/ 53.0	50.0/ 60.0

OPTION B: HEATER AND AIR HANDLER POWERED TOGETHER

HEATER INSTALLED IN A DRUF1820S2A OR DRUF2420S2A					
HEATER PART MODEL NUMBER (kW)	ELECTRIC RATING (kW) (208/230V)	BTUH (208/230V)	CIRCUIT 1 (208/230V)		
			HEATER AMPS (1)	MCA (1)	MOCP (1)
DRUFHTR03BRKB (3kW)	2.25/ 2.75	6,830/ 10,240	10.8/ 12.0	18.0/ 19.0	20.0/ 20.0
DRUFHTR05BRKB (5kW)	3.75/ 4.60	12,795/ 17,060	18.0/ 20.0	27.0/ 29.0	30.0/ 30.0
DRUFHTR08BRKB (8kW)	6.00/ 7.35	19,200/ 25,600	28.8/ 32.0	40.0/ 44.0	45.0/ 45.0
DRUFHTR10BRKB (10kW)	7.50/ 9.20	25,575/ 34,100	36.1/ 40.0	49.0/ 54.0	50.0/ 60.0

HEATER INSTALLED IN A DRUF3022S2A					
HEATER PART MODEL NUMBER (kW)	ELECTRIC RATING (kW) (208/230V)	BTUH (208/230V)	CIRCUIT 1 (208/230V)		
			HEATER AMPS (1)	MCA (1)	MOCP (1)
DRUFHTR03BRKB (3kW)	2.25/ 2.75	6,830/ 10,240	10.8/ 12.0	20.0/ 21.0	25.0/ 25.0
DRUFHTR05BRKB (5kW)	3.75/ 4.60	12,795/ 17,060	18.0/ 20.0	29.0/ 31.0	30.0/ 35.0
DRUFHTR08BRKB (8kW)	6.00/ 7.35	19,200/ 25,600	28.8/ 32.0	42.0/ 46.0	45.0/ 50.0
DRUFHTR10BRKB (10kW)	7.50/ 9.20	25,575/ 34,100	36.1/ 40.0	51.0/ 56.0	60.0/ 60.0

HEATER INSTALLED IN A DRUF3622S2A					
HEATER PART MODEL NUMBER (kW)	ELECTRIC RATING (kW) (208/230V)	BTUH (208/230V)	CIRCUIT 1 (208/230V)		
			HEATER AMPS (1)	MCA (1)	MOCP (1)
DRUFHTR03BRKB (3kW)	2.25/ 2.75	6,830/ 10,240	10.8/ 12.0	20.0/ 22.0	25.0/ 25.0
DRUFHTR05BRKB (5kW)	3.75/ 4.60	12,795/ 17,060	18.0/ 20.0	29.0/ 32.0	30.0/ 35.0
DRUFHTR08BRKB (8kW)	6.00/ 7.35	19,200/ 25,600	28.8/ 32.0	43.0/ 47.0	45.0/ 50.0
DRUFHTR10BRKB (10kW)	7.50/ 9.20	25,575/ 34,100	36.1/ 40.0	52.0/ 57.0	60.0/ 60.0

Specifications are subject to change without notice.

© 2026 Ferguson Enterprises LLC

www.durastar.com