



EVEN, CONSISTENT COMFORT WITHOUT SACRIFICING AESTHETICS



SLIM DUCT

- UP TO 22.3 SEER2 / 14.3 EER2 / 9.5 HSPF2 EFFICIENCY
- COOLING RANGE: -20°F - 122°F
- HEATING RANGE: -22°F - 86°F
- MAXIMUM LINE LENGTH: 131 FT.

A LOW PROFILE DESIGN THAT MAINTAINS CONSISTENT COMFORT AND EFFICIENCY

Install a slim duct in a ceiling or wall for a concealed HVAC solution that distributes air through minimal ductwork. Operating quietly and efficiently, the slim duct is nearly invisible in any room as it delivers consistent comfort in heating or cooling.

- High E.S.P Capability -Adjustable
- Slim line construction
- Outside air capability
- Cleanable air filter
- Flexible Return Air From Bottom Or Rear
- Internal condensate pump
- Sentry float switch
- Refrigerant sensor

SYSTEM TYPE			HEAT PUMP														
Indoor Model			DUC09HP230V1R32AH			DUC12HP230V1R32AH			DUC18HP230V1R32AH			DUC24HP230V1R32AH			DUC30HP230V1R32AH	DUC36HP230V1R32AH	
Outdoor Model			VIR09HP230V1R32AO	ENV09HP230V1R32AO	SAP09HP230V1R32AO	VIR12HP230V1R32AO	ENV12HP230V1R32AO	SAP12HP230V1R32AO	VIR18HP230V1R32AO	ENV18HP230V1R32AO	SAP18HP230V1R32AO	VIR24HP230V1R32AO	ENV24HP230V1R32AO	SAP24HP230V1R32AO	LIV30HP230V1R32AO	LIV36HP230V1R32AO	
SYSTEM PERFORMANCE																	
Cooling Capacity	Min - Max	Btu/h	6,832 - 13,664	6,832 - 13,664	3,805 - 9,646	8,528 - 17,056	8,528 - 17,056	8,528 - 17,056	9,078 - 25,695	9,078 - 25,695	11,284 - 27,745	12,125 - 30,740	12,125 - 30,740	13,170 - 33,390	18,760 - 38,881	22,043 - 45,686	
	Capacity @95°F	Btu/h	9,100	9,100	9,100	12,000	12,000	12,000	18,000	18,000	18,000	22,000	22,000	22,000	30,000	33,600	
Heating Capacity	Min - Max	Btu/h	6,158 - 13,600	6,158 - 13,600	4,804 - 11,869	7,691 - 15,695	7,691 - 15,695	7,967 - 17,320	8,988 - 23,884	8,988 - 23,884	9,184 - 27,688	12,627 - 31,199	12,627 - 31,199	15,875 - 39,225	14,405 - 33,460	19,467 - 45,216	
	Capacity @47°F	Btu/h	10,500	10,500	10,500	12,000	12,000	12,000	18,000	18,000	18,000	24,000	24,000	24,000	34,000	34,000	
	Capacity @17°F	Btu/h	8,800	8,800	8,900	10,000	10,000	10,300	14,700	14,700	15,500	19,800	19,800	20,000	24,000	27,200	
Capacity Max @5°F		Btu/h	9,500	9,500	9,200	10,500	10,500	10,500	15,000	15,000	15,500	19,600	19,600	21,000	20,400	23,600	
SEER2			22.0	22.0	22.3	21.0	21.0	22.0	22.5	22.5	24.0	19.5	19.5	22.0	18.50	20.0	
EER2			14.20	14.2	14.3	13.0	13.0	13.0	14.0	14.0	13.65	12.3	12.3	12.5	11.25	11.95	
HSPF2			9.2	9.2	9.5	9.0	9.0	9.0	9.0	9.0	9.2	9.0	9.0	9.0	8.5	8.5	
COP @5°F			2.15	2.15	1.80	1.90	1.90	1.90	1.90	1.90	1.80	1.80	1.80	1.80	1.80	1.90	
Energy Star®			YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Energy Star® Certified with Cold Climate Designation			YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
Cooling Temperature Range		°F	-20 - 122			-20 - 122			-20 - 122			-20 - 122			0 - 118		
Heating Temperature Range		°F	-22 - 86			-22 - 86			-22 - 86			-22 - 86			-13 - 75		
Refrigerant Type			R32			R32			R32			R32			R32		
INDOOR UNIT			DUC09HP230V1R32AH			DUC12HP230V1R32AH			DUC18HP230V1R32AH			DUC24HP230V1R32AH			DUC30HP230V1R32AH	DUC36HP230V1R32AH	
Air flow (Min-Max)	CFM		188 - 324			212 - 353			288 - 589			406 - 736			647 - 883	853 - 1324	
External Static Pressure (Max)	In W.c.		0.6			0.6			0.8			0.8			0.8	0.8	
Sound Pressure Level (Min - Max)	dB(A)		25 - 38			25 - 39			25 - 40			30 - 42			36 - 45	39 - 45	
Dehumidification	pt/hr		1.69			2.96			3.80			5.28			7.40	7.82	
External Dimensions (L x D x H)	in		32-43/64 x 29-11/16 x 11-13/16			32-43/64 x 29-11/16 x 11-13/16			44-31/64 x 29-11/16 x 11-13/16			44-31/64 x 29-11/16 x 11-13/16			35-7/16 x 10-15/64 x 25-25/32	52-3/4 x 25-25/32 x 10-15/64	
Package Dimension (L x W x H)	in		35-5/16 x 31-13/16 x 14-11/16			35-5/16 x 31-13/16 x 14-11/16			47-7/16 x 32-1/64 x 14-11/64			47-7/16 x 32-1/64 x 14-11/64			43-57/64 x 30-25/64 x 12-19/32	61-47/64 x 30-5/16 x 12-23/32	
Net Weight	lbs		70.6			70.6			92.6			92.6			66.2	94.8	
Gross Weight	lbs		83.8			83.8			106.9			106.9			77.2	108.0	
OUTDOOR UNIT			VIR09HP230V1R32AO	ENV09HP230V1R32AO	SAP09HP230V1R32AO	VIR12HP230V1R32AO	ENV12HP230V1R32AO	SAP12HP230V1R32AO	VIR18HP230V1R32AO	ENV18HP230V1R32AO	SAP18HP230V1R32AO	VIR24HP230V1R32AO	ENV24HP230V1R32AO	SAP24HP230V1R32AO	LIV30HP230V1R32AO	LIV36HP230V1R32AO	
Sound Pressure Level	dB(A)		52	52	56	52	52	55	59	59	59	58	61	62	62	62	
External Dimensions (L x D x H)	in		31-37/64 x 13-25/32 x 21-27/32	31 37/64 x 13 25/32 x 21 27/32	34-3/8 x 14-51/64 x 21-27/32	31-37/64 x 13-25/32 x 21-27/32	31 37/64 x 13 25/32 x 21 27/32	34-3/8 x 14-51/64 x 21-27/32	37-23/32 x 15-53/64 x 25-63/64	37-23/32 x 15-53/64 x 25-63/64	37-23/32 x 15-53/64 x 25-63/64	37-23/32 x 15-53/64 x 25-63/64	39-3/8 x 16-13/16 x 29-3/8	39-3/8 x 16-13/16 x 29-3/8	39-3/8 x 15-13/16 x 29-3/8	39-3/8 x 15-13/16 x 29-3/8	
Package Dimension (L x W x H)	in		34-21/64 x 15-43/64 x 24-13/32	34 21/64 x 15 43/64 x 24 13/32	37-7/16 x 16-31/32 x 24-13/32	34-21/64 x 15-43/64 x 24-13/32	34 21/64 x 15 43/64 x 24 13/32	37-7/16 x 16-31/32 x 24-13/32	40-5/8 x 17-61/64 x 29-1/64	40-5/8 x 17-61/64 x 29-1/64	40-5/8 x 17-61/64 x 29-1/64	40-5/8 x 17-61/64 x 29-1/64	42-33/64 x 19-1/64 x 31-57/64	42-33/64 x 19-1/64 x 31-57/64	42-33/64 x 19-1/64 x 31-57/64	42-33/64 x 19-1/64 x 31-57/64	
Net Weight	lbs		70.6	70.6	78.3	67.3	70.6	78.3	94.8	94.8	94.8	92.6	103.6	115.8	116.8	122.4	
Gross Weight	lbs		76.1	76.1	84.9	72.8	76.1	84.9	104.7	104.7	104.7	102.5	114.7	126.8	127.9	133.4	
REFRIGERANT PIPING																	
Refrigerant Charge - R32	oz		30	30	35.3	28.2	28.2	47.6	40.6	40.6	47.6	42.3	49.4	56.4	56.4	56.4	
Additional Charge	oz/ft		0.2	0.2	0.2	0.2	0.2	0.4	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	
Line Set Sized by Indoor Unit (Liquid - Gas)	in		1/4 - 3/8			1/4 - 3/8			1/4 - 5/8			1/4 - 5/8			1/4 - 5/8		
Line Set Size (Liquid - Gas) - Flared Connections	in		1/4 - 3/8	1/4 - 3/8	1/4 - 1/2	1/4 - 1/2	1/4 - 1/2	1/4 - 1/2	1/4 - 1/2	1/4 - 1/2	1/4 - 5/8	1/4 - 5/8	1/4 - 5/8	1/4 - 5/8	1/4 - 5/8	1/4 - 5/8	
Pre-Charge Length	ft		25			25			25			25			25		
Pipe Length (Min - Max)	ft		10 - 66	10 - 66	10 - 131	10 - 66	10 - 66	10 - 131	10 - 131	10 - 131	10 - 131	10 - 131	10 - 131	10 - 131	10 - 131	10 - 131	
Max. Pipe Elevation	ft		40	40	82	40	40	82	82	82	82	82	82	82	82	82	
ELECTRICAL																	
Power Supply			208-230V / 1Ph / 60Hz (Powered by the Outdoor Unit)			208-230V / 1Ph / 60Hz (Powered by the Outdoor Unit)			208-230V / 1Ph / 60Hz (Powered by the Outdoor Unit)			208-230V / 1Ph / 60Hz (Powered by the Outdoor Unit)			208-230V / 1Ph / 60Hz (Powered by the Outdoor Unit)		
Voltage Range (Min - Max)	VAC		187 - 253			187 - 253			187 - 253			187 - 253			187 - 253		
Rated Current - Cooling	A		4.73	4.73	5.9	6.64	6.64	5.9	11.5	5.9	12.5	13	5.9	14	20	20	
Rated Current - Heating	A		6	6	7.6	6.41	6.41	7.8	11.5	7.8	16	15.5	7.8	21.5	20	20	
MCA	A		10	10	11	10	10	11	16	11	20	22	11	25	25.6	23	
MOCP	A		15	15	15	15	15	15	20	15	25	30	15	40	35	35	
Suggested Breaker Size	A		10	10	15	10	10	15	20	15	20	25	15	25	30	25	
Main Power Wire Size	AWG		Per Local Code			Per Local Code			Per Local Code			Per Local Code			Per Local Code		
Interconnecting Wire Size	AWG		14 / 4			14 / 4			14 / 4			14 / 4			14 / 4		
LIMITED WARRANTY			5 Years Parts, 7 Years Compressor - Residential & Commercial						5 Years Parts, 7 Years Compressor - Residential & Commercial								



Air comfort for all

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