

# DUCTLESS SYSTEMS

ADVANTAGE SERIES

DLCSRA OUTDOOR UNIT



## OUTDOOR FEATURES

- 100% heating capacity at 5° F (-15° C) sizes 12-18 (208/230V)
- Available in 115V and 208/230V
- Built-in basepan heater
- Auto-restart function
- Condenser high-temperature protection
- Refrigerant leakage detection
- Quiet outdoor operation, as low as 54.6 dB(A)
- Aluminum Golden Hydrophilic pre-coated fins
- Piping length 82 ~ 164 ft. (25 ~ 50 m.)
- Cooling operating range -13° ~ 122° F (-25° ~ 50° C)
- Heating operating range -22° ~ 86° F (-30° ~ 30° C)
  - Sizes 9-24 (208/230V)
  - 13° ~ 86° F (-25° ~ 30° C)
  - Sizes 9, 12 (115V) & 30, 36 (208/230V)

# A Versatile Outdoor Unit for Maximum Efficiency

## Heat Pump with Basepan Heater

Sizes: 09 / 12 / 18 / 24 / 30 / 36

Select sizes are ENERGY STAR® certified based on outdoor unit pairing



## KEY FEATURES

### Extra Low Temperature Heating

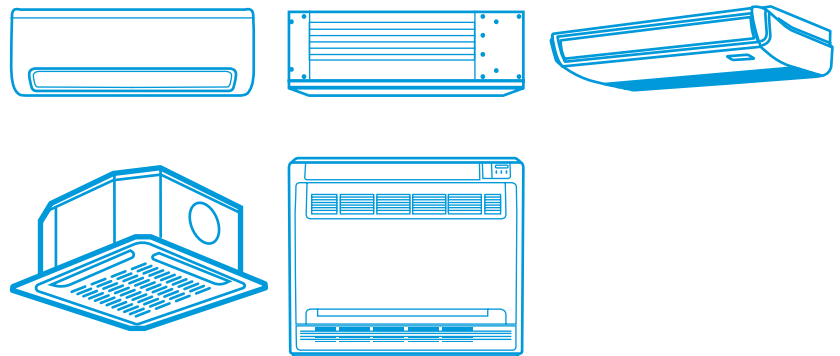
For when it's cold outside, the heat output for this system is up to 69% of rated capacity down to -22° F (-30° C), making this a primary heat source and eliminating the need for a backup heat source.

### Stepless Frequency Adjustment

Precise control of the system maintains stable and constant room temperature while reducing sound level and saving energy.

## COMPATIBLE WITH

- DLFSHA High Wall
- DLFSCA Cassette
- DLFSDA Ducted
- DLFSFA Console



# DUCTLESS SYSTEMS

## ADVANTAGE SERIES DLCSRA OUTDOOR UNIT

### INDOOR UNITS

#### PERFORMANCE:

DLFSHA High Wall									
Indoor Model		DLFSHAH09XAJ	DLFSHAH12XAJ	DLFSHAH09XAK	DLFSHAH12XAK	DLFSHAH18XAK	DLFSHAH24XAK	DLFSHAH30XAK	DLFSHAH36XAK
ENERGY STAR®		YES	YES	YES	YES	YES	YES	YES	YES
Cooling System Tons		0.75	1.0	0.75	1.0	1.5	2.0	2.5	3.0
Cooling Rated Capacity	Btu/h	9,000	12,000	9,000	12,000	18,000	24,000	30,000	36,000
Cooling Cap. Range Min - Max	Btu/h	3,500-9,400	3,500-12,200	3,500-12,600	4,200-12,900	4,300-21,200	5,200-23,000	8,000-32,500	8,000-37,800
SEER		22.4	20.4	24.7	21.5	22.0	20.0	20.0	18.0
EER		14.0	12.5	14.0	12.5	12.5	12.5	12.5	10.5
Heating Rated Capacity (47° F)	Btu/h	9,800	11,800	12,000	12,000	18,000	25,000	30,000	36,000
Heating Rated Capacity (17° F)	Btu/h	5,600	7,200	7,500	7,600	11,900	15,000	18,000	21,000
Heating Maximum Capacity (17° F)	Btu/h	7,900	8,000	12,400	12,800	21,500	22,700	25,300	29,700
Heating Maximum Capacity (5° F)	Btu/h	6,800	7,800	10,700	12,100	20,700	23,300	19,500	23,400
Heating Cap. Range Min - Max	Btu/h	1,300-10,300	1,300-12,400	1,300-14,500	1,400-13,900	2,900-22,900	2,300-26,800	2,600-30,400	2,700-36,000
HSPF		10.5	11.0	10.5	11.0	10.5	10.0	9.8	10.0
COP (47° F)	W/W	3.50	3.20	3.17	3.20	3.22	2.93	3.52	3.44
COP (17° F)	W/W	2.65	2.60	2.65	2.40	2.50	2.35	2.55	2.60
COP (5° F)	W/W	2.05	1.97	1.60	1.60	1.60	1.70	1.64	1.50

DLFSCA Cassette					
Indoor Model		DLFSCAH09XAK	DLFSCAH12XAK	DLFSCAH18XAK	DLFSCAH24XAK
ENERGY STAR®		YES	YES	YES	NO
Cooling System Tons		0.75	1.0	1.4	2.0
Cooling Rated Capacity	Btu/h	9,000	12,000	16,000	24,000
Cooling Cap. Range Min - Max	Btu/h	3,000-13,000	3,300-12,000	6,000-18,700	11,000-28,600
SEER		20.0	19.5	20.0	20.0
EER		13.0	12.5	12.5	11.0
Heating Rated Capacity (47° F)	Btu/h	10,000	12,000	18,000	24,000
Heating Rated Capacity (17° F)	Btu/h	6,700	8,200	12,000	16,200
Heating Maximum Capacity (17° F)	Btu/h	14,300	14,700	22,700	31,700
Heating Maximum Capacity (5° F)	Btu/h	12,200	12,300	20,000	30,000
Heating Cap. Range Min - Max	Btu/h	4,000-15,200	3300-15,000	8,900-21,400	10,200-33,600
HSPF		10.2	10.2	10.5	11.5
COP (47° F)	W/W	3.37	3.55	2.95	3.66
COP (17° F)	W/W	2.57	2.43	2.58	2.97
COP (5° F)	W/W	1.71	1.70	1.45	1.93

DLFSDA Ducted					
Indoor Model		DLFSDAH09XAK	DLFSDAH12XAK	DLFSDAH18XAK	DLFSDAH24XAK
ENERGY STAR®		YES	YES	YES	YES
Cooling System Tons		0.75	1.0	1.4	2.0
Cooling Rated Capacity	Btu/h	9,000	12,000	16,500	24,000
Cooling Cap. Range Min - Max	Btu/h	3,000-13,000	3,300-12,000	6,000-18,700	11,000-28,700
SEER		22.5	20.5	20.0	21.0
EER		14.0	12.5	12.5	12.5
Heating Rated Capacity (47° F)	Btu/h	10,000	12,500	19,000	24,000
Heating Rated Capacity (17° F)	Btu/h	6,800	8,100	12,400	17,400
Heating Maximum Capacity (17° F)	Btu/h	14,300	14,700	22,700	31,700
Heating Maximum Capacity (5° F)	Btu/h	12,200	12,300	20,000	30,000
Heating Cap. Range Min - Max	Btu/h	4,000-15,200	3,300-15,000	8,900-21,400	10,200-33,600
HSPF		11.5	11.0	10.8	12.0
COP (47° F)	W/W	3.37	3.55	2.95	3.66
COP (17° F)	W/W	2.57	2.43	2.58	2.97
COP (5° F)	W/W	1.71	1.70	1.45	1.93

DLFSFA Console				
Indoor Model		DLFSFAH12XAK	DLFSFAH18XAK	DLFSFAH24XAK
ENERGY STAR®		YES	YES	NO
Cooling System Tons		1.0	1.4	2.0
Cooling Rated Capacity	Btu/h	12,000	17,000	24,000
Cooling Cap. Range Min - Max	Btu/h	4,200-13,100	6,600-20,600	11,000-29,200
SEER		19.4	19.9	20.0
EER		12.5	12.5	11.5
Heating Rated Capacity (47° F)	Btu/h	12,000	18,000	24,000
Heating Rated Capacity (17° F)	Btu/h	9,600	12,900	17,200
Heating Maximum Capacity (17° F)	Btu/h	13,500	21,500	27,950
Heating Maximum Capacity (5° F)	Btu/h	12,300	18,700	25,000
Heating Cap. Range Min - Max	Btu/h	4,800-13,600	9,000-22,300	10,200-18,400
HSPF		10.5	10.2	11.5
COP (47° F)	W/W	3.43	3.48	3.66
COP (17° F)	W/W	2.66	2.30	2.80
COP (5° F)	W/W	1.62	1.60	1.67

## SPECIFICATIONS:

DLCSRA Outdoor Unit									
Heat Pump									
System									
Size		9	12	9	12	18	24	30	36
Outdoor Model		DLCSRAH09AAJ	DLCSRAH12AAJ	DLCSRAH09AAK	DLCSRAH12AAK	DLCSRAH18AAK	DLCSRAH24AAK	DLCSRAH30AAK	DLCSRAH36AAK
Electrical									
Voltage-Phase-Cycle	V-Ph-Hz	115-1-60	115-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
MCA	A.	15	15	9	9	17	20	20	25
MOCP	A.	20	20	15	15	25	30	30	35
Operating Range									
Cooling Outdoor DB Min - Max	° F (° C)	-13~-122 (-25~-50)	-13~-122 (-25~-50)	-13~-122 (-25~-50)	-13~-122 (-25~-50)	-13~-122 (-25~-50)	-13~-122 (-25~-50)	-13~-122 (-25~-50)	-13~-122 (-25~-50)
Heating Outdoor DB Min - Max	° F (° C)	-13~-86 (-25~-30)	-13~-86 (-25~-30)	-22~-86 (-30~-30)	-22~-86 (-30~-30)	-22~-86 (-30~-30)	-22~-86 (-30~-30)	-13~-86 (-25~-30)	-13~-86 (-25~-30)
Piping									
Total Piping Length	in (mm)	82 (25)	82 (25)	82 (25)	82 (25)	98 (30)	98 (30)	164 (50)	164 (50)
Piping Lift*	in (mm)	32 (10)	32 (10)	32 (10)	32 (10)	66 (20)	66 (20)	82 (25)	82 (25)
Pipe Connection Size - Liquid	in (mm)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)	3/8 (9.52)	3/8 (9.52)
Pipe Connection Size - Suction	in (mm)	3/8 (9.52)	1/2 (12.7)	3/8 (9.52)	1/2 (12.7)	1/2 (12.7)	5/8 (16)	5/8 (16)	5/8 (16)
Refrigerant									
Type	in (mm)	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Charge	in (mm)	2.49 (1.1)	2.64 (1.15)	3.31 (1.5)	3.31 (1.5)	4.3 (1.95)	5.73 (2.6)	6.06 (2.75)	7.49 (3.4)
Outdoor									
Unit Width	in (mm)	30.31 (770)	31.5 (800)	31.5 (800)	31.5 (800)	33.27 (845)	37.24 (946)	37.24 (946)	37.24 (946)
Unit Height	in (mm)	21.81 (554)	21.81 (554)	21.81 (554)	21.81 (554)	27.63 (702)	31.89 (810)	31.89 (810)	31.89 (810)
Unit Depth	in (mm)	11.81 (300)	13.11 (333)	13.11 (333)	13.11 (333)	14.26 (363)	16.54 (420)	16.54 (420)	16.54 (420)
Net Weight	lbs (kg)	67.9 (30.8)	80.7 (36.6)	90.8 (41.2)	91.7 (41.6)	113.3 (51.4)	141.1 (64)	137.8 (62.5)	143.3 (65)
Airflow	CFM	1,177	1,177	1,177	1,177	1,824	2,355	2,119	2,119
Sound Pressure	dB(A)	55.5	54.7	56.6	54.6	58.9	61.0	60.0	60.0

\*Considering unit above or below indoor unit.

## COMPATIBILITY:

INDOOR UNIT	DLCSRA OUTDOOR UNIT							
	DLCSRAH09AAJ	DLCSRAH12AAJ	DLCSRAH09AAK	DLCSRAH12AAK	DLCSRAH18AAK	DLCSRAH24AAK	DLCSRAH30AAK	DLCSRAH36AAK
DLFSHA High Wall	DLFSAH09XAJ	DLFSAH12XAJ	DLFSAH09XAK	DLFSAH12XAK	DLFSAH18XAK	DLFSAH24XAK	DLFSAH30XAK	DLFSAH36XAK
DLFSCA Cassette*			DLFSCAH09XAK	DLFSCAH12XAK	DLFSCAH18XAK	DLFSCAH24XAK		
DLFSDA Ducted*			DLFSDAH09XAK	DLFSDAH12XAK	DLFSDAH18XAK	DLFSDAH24XAK		
DLFSFA Console*				DLFSFAH12XAK	DLFSFAH18XAK	DLFSFAH24XAK		

\*Cassette, Ducted and Console indoor units sizes 36, 48 & 58 ONLY compatible with DLCLRA Outdoor Unit