



**AIR-TO-AIR HEAT PUMP SYSTEM** 

# Ductless single zone heat pump solution

# VITOCAL 100-S



**Reliable comfort in extreme climates**Powerful low ambient

Powerful low ambient air-to-air heat pump system.

# Innovative high-performing HVAC solutions for single zone comfort



# Reasons to love ductless

#### Bring Comfort To Any Space In Any Condition

With extreme temperature performance, Viessmann ductless units provide reliable heating and cooling even in extreme weather, from -22°F to 122°F (-30°C to 50°C). With indoor unit choices for every space and style, you can easily deliver and maintain individualised comfort to a single room or an entire home. Single zone units allow the simple pairing of one indoor unit per outdoor unit.

### Save On Energy And Operational Costs

Increase comfort with lower energy use. Our single zone ductless units deliver up to 28.1 SEER2 and 13.6 HSPF2 ratings. Reduce costs with ENERGY STAR® certified units.

# Enjoy Ultimate System Flexibility and ease of use

Products feature an intelligent Eye Sensor. This unique occupancy sensor detects activity in a room and adjusts the angle of airflow for optimum comfort. Flexible modes allow for maximum comfort such as Eco Mode for extra efficiency, or Turbo Mode to quickly cool or heat a space.

#### **Convenient Control**

A temperature sensing, wireless remote controller included with most indoor units helps adjust and maintain ideal temperatures at your exact location in the room.

### Improve Air Quality

Breathe easier with enhanced indoor air quality. Our built-in reusable filters (available in all indoor units) effectively remove odors, allergens and pollutants for cleaner, fresher air and lower maintenance costs. Just pull them out, rinse them off and re-install.

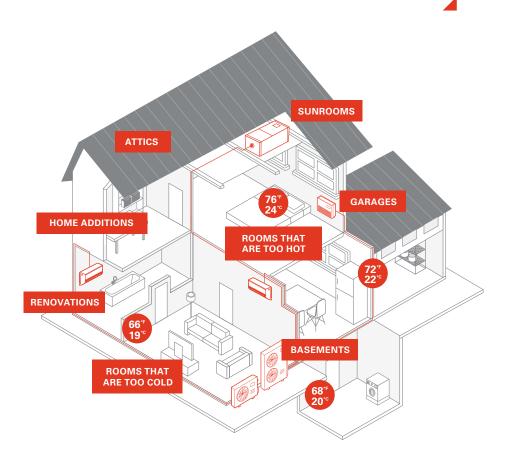
### Rapid Cooling and Heating

After startup, the compressor quickly gets up to maximum speed, cooling or heating the room in minutes.

#### **Whisper Quiet Operation**

Ultra-quiet operation reduces noise pollution both indoors and out for more peaceful, comfortable spaces.

# Deliver personalized comfort to any room



# Options for every space & style

Select the system that's right for you or find the perfect combination for whole-home comfort.

### **HIGH WALL**



- + Wall-mounted
- + Whisper-quiet
- + Eco mode

# FLOOR CONSOLE OR UNDER CEILING



- + Mounted near floor or under ceiling
- + Slim profile
- + Outside air intake to keep air fresh and clean

### DUCTED



- + Recessed into wall or ceiling
- + Maximum installation flexibility
- + Improved ventilation

### **CEILING CASSETTE**



- + Recessed into ceiling or under floor
- + Discrete or hidden installation
- + 360-degree airflow

# MULTI-POSITION AIR HANDLER



- + Connects to existing ductwork
- + Replaces existing furnace
- + Hidden from view

### ONE-WAY CASSETTE



- + Recessed into ceiling
- + Slim and compact
- + Follow Me temperature sensor

# OPTIONAL WIRED CONTROLLER



- + Wall-mounted
- + 7-day
- programmable + Customizable
- Customizable
   schedules

The Vitocal 100-S ductless system cuts energy costs up to 60% while offering dependable performance in temperatures from -22°F to 122°F (-30°C to 50°C)



A temperature sensing, wireless remote controller included with most indoor units helps adjust and maintain ideal temperatures at your exact location in the room.

Ductless systems are becoming an increasingly popular HVAC choice in homes and businesses across Canada. Why? They use the same process as traditional HVAC systems to heat and cool your home or business just without the need for ductwork. Often called "mini-splits," these systems work by connecting a single outdoor unit to one or more indoor units through flexible refrigerant tubing. So they are simple to install just about anywhere. And because ductless units are placed directly in the room, they offer precise temperature control, better energy efficiency and cost-effective comfort year-round.

### Versatile HVAC Systems For Endless Comfort Possibilities

Ductless systems are unique, generating climate-controlled air without the use of traditional ductwork. Compact and sleek, they can be used in single or multiple zones to create endless possibilities for personalized HVAC systems. Ductless indoor units integrate neatly into a space. They are installed in the least obtrusive but most effective

area to quietly direct air to every corner of the room. And the indoor unit(s) simply connects to the outdoor unit with a hidden conduit.

### **Ductless Solutions Deliver On Benefits**

To help you stay competitive and successful, Viessmann offers a family of flexible ductless solutions that fit a range of needs. Extremely efficient and high-performing, these systems help solve your customers' biggest heating and cooling challenges

# Inverter Technology That Adapts To Your Climate

Viessmann ductless systems use inverter technology which continually adjusts the compressor speed as conditions change for consistent comfort with lower energy usage. Plus, enjoy year-round comfort with powerful low ambient heating and cooling down to -22°F (-30°C). 100% Heating capacity at -4° F (-20°C)\*.

<sup>\*</sup> Outdoor unit operating ranges may vary by model

# Simple installation and maintenance

#### Flexible Installation

Piping flexibility up to a total piping length of 213 ft. (65 m.).

#### Minimal Installation

Because there are no ducts, installation is a breezeno tearing open walls, patching, or repainting required!

#### Low Ambient Cooling Kit

With a built-in Low Ambient Cooling Kit or specially designed PCB, outdoor fan speeds can be changed automatically based on the temperature. The unit can run cooling operation even in low ambient temperatures.

#### One-Person Installation & Cleaning

Easy-install mounting brackets firmly support the high wall unit, while tabs prop open the cover for hassle-free cleaning and filter changes.

### Third-Party Thermostat Compatibility

With the optional 24V interface kit, Viessmann ductless systems work with any third-party or smart thermostat.

### **Factory Matched**

Pick from a selection of indoor units that have been engineered to match perfectly with our Vitocal 100-S outdoor unit to deliver maximum performance and comfort.

#### **Larger Capacity Options**

The Viessmann single zone line of ductless heat pumps is offered in capacities large enough to accommodate light commercial applications while delivering the same quiet optimized performance of our residential capacities.



### **CHALLENGES DUCTLESS CAN SOLVE**

- + Older buildings with baseboard heating or no ductwork
- + Rooms that are difficult to heat or cool
- + Attic or garage buildings
- + Tight quarters

### **BENEFITS AT A GLANCE**

- + Energy savings Up to 28.1 SEER2 and 13.6 HSPF2
- + Comfort in any climate Operate in temperatures as low as -22°F (-30°C) and as high as 122°F (50°C). Can serve as the primary heat source, eliminating the need for a backup
- + Easy maintenance and Installation Reusable filters enable higher efficiency and lower costs. No major renovations, patching or painting required
- + Personalized comfort matched indoor units for every space and style
- + Flexible options Compatible with third-party thermostats with built-in 24V interface kit
- ENERGY STAR certified models

AIR-TO-AIR HEAT PUMP SYSTEM TECHNICAL DATA

### **PERFORMANCE**

### High Wall Indoor Unit Vitocal IND-H / DLFSHCH Series

	12K	6K	9K	12K	18K	24K	30K	36K
	DLFSHCH12XAJ	DLFSHCH06XAK	DLFSHCH09XAK	DLFSHCH12XAK	DLFSHCH18XAK	DLFSHCH24XAK	DLFSHCH30XAK	DLFSHCH36XAK
	YES	YES	YES	YES	YES	YES	NO	NO
Btu/h	12,000	6,000	9,000	12,000	18,000	24,000	30,000	36,000
Btu/h	3,500~13,200	3,400~12,000	3,300~14,300	3,300~14,300	8,900~19,400	6,850~27,000	8,900~32,600	9,300~38,800
	23.5	26.5	28.1	25.5	21.5	21.5	20.0	20.0
	13.0	15.8	16.2	14.0	12.5	13.0	11.5	8.5
Btu/h	12,000	7,000	12,000	12,000	18,000	29,000	30,000	36,000
Btu/h	8,400	8,500	9,500	10,000	15,000	19,800	19,000	22,400
Btu/h	7,100	7,500	10,500	12,000	18,000	25,200	20,600	20,400
Btu/h	8,500	9,000	12,000	12,000	20,270	27,200	21,200	22,500
Btu/h	5,000~12,200	3,500~11,500	5,000~15,200	5,000~15,300	15,100~19,500	11,600~33,000	12,300~34,100	11,550~37,000
	9.9	13.0	11.5	10.4	10.7	11.4	9.0	8.0
W/W	3.52	3.92	3.81	3.88	3.10	3.40	2.90	2.51
W/W	2.80	2.90	2.53	2.41	2.35	2.87	2.30	2.18
W/W	2.18	2.10	1.80	1.80	1.80	1.80	1.94	1.80
	Btu/h Btu/h Btu/h Btu/h Btu/h W/W W/W	Btu/h         12,000           Btu/h         12,000           Btu/h         23.5           13.0         13.0           Btu/h         12,000           Btu/h         8,400           Btu/h         7,100           Btu/h         8,500           Btu/h         5,000~12,200           9.9           W/W         3.52           W/W         2.80	Btu/h         3,500-13,200         3,400-12,000           Btu/h         3,500-13,200         3,400-12,000           Btu/h         12,000         3,400-12,000           Btu/h         13,0         15.8           Btu/h         12,000         7,000           Btu/h         8,400         8,500           Btu/h         7,100         7,500           Btu/h         8,500         9,000           Btu/h         5,000-12,200         3,500-11,500           Btu/h         9,9         13.0           W/W         3.52         3.92           W/W         3.52         3.92           W/W         2.80         2.90	BLFSHCH12XAJ         DLFSHCH06XAK         DLFSHCH09XAK           Btu/h         YES         YES           Btu/h         12,000         4,000         3,300~14,300           Btu/h         3,500~13,200         3,400~12,000         3,300~14,300           Btu/h         13.0         15.8         16.2           Btu/h         12,000         7,000         12,000           Btu/h         8,400         8,500         9,500           Btu/h         8,500         7,500         12,000           Btu/h         8,500         9,00         12,000           Btu/h         5,000~12,200         3,500~11,500         5,000~15,200           Btu/h         5,000~12,200         3,500~11,500         5,000~15,200           W/W         3.52         3.92         3.81           W/W         3.52         3.92         3.81           W/W         3.52         3.92         3.81	BLFSHCH12XAJ         DLFSHCH06XAK         DLFSHCH09XAK         DLFSHCH12XAJ           Btu/h         YES         YES         YES           Btu/h         12,000         6,000         9,000         12,000           Btu/h         3,500~13,200         3,400~12,000         3,300~14,300         3,300~14,300           Btu/h         23.5         26.5         28.1         25.5           Btu/h         12,000         7,000         12,000         12,000           Btu/h         8,400         8,500         9,500         10,000           Btu/h         7,100         7,500         10,500         12,000           Btu/h         8,500         9,00         12,000         12,000           Btu/h         8,500         9,00         12,000         12,000           Btu/h         5,000~12,200         3,500~11,500         5,000~15,200         5,000~15,300           Btu/h         5,000~12,200         3,500~11,500         5,000~15,200         5,000~15,300           W/W         3.52         3.92         3.81         3.81           W/W         3.52         3.92         3.81         3.81           W/W         2.53         2.90         2.53         2.41 </th <th>BLFSHCH12XAJ         DLFSHCH06XAK         DLFSHCH09XAK         DLFSHCH12XAK         DLFSHCH18XAK           Btu/h         12,000         6,000         9,000         12,000         18,000           Btu/h         3,500-13,200         3,400-12,000         3,300-14,300         3,900-14,300         8,900-19,400           Btu/h         23.5         26.5         28.1         25.5         21.5           Btu/h         12,000         7,000         12,000         12,000         18,000           Btu/h         8,400         8,500         9,500         10,000         15,000           Btu/h         7,100         7,500         10,500         12,000         18,000           Btu/h         8,500         9,000         12,000         12,000         18,000           Btu/h         8,500         9,000         12,000         12,000         10,000           Btu/h         8,500         9,000         12,000         12,000         10,000         10,000           Btu/h         5,000-12,200         3,500-11,500         5,000-15,200         5,000-15,300         15,100-19,500           W/W         3.52         3.92         3.81         3.88         3.10           W/W         3.</th> <th>BLFSHCH12XAJ         DLFSHCH06XAK         DLFSHCH09XAK         DLFSHCH12XAK         PKB           Btu/h         12,000         4,000         9,000         12,000         8,900-19,400         6,850-27,000           Btu/h         23,500-13,200         3,400-12,000         3,300-14,300         8,900-19,400         6,850-27,000           Btu/h         13,00         15,80         21,50         14,0         12,5         21,5           Btu/h         12,000         7,000         12,000         12,000         18,000         29,000           Btu/h         8,400         8,500         9,500         10,500         12,000         18,000         25,200           Btu/h         8,500         9,000         12,000         12,000         18,000         27,200           Btu/h         8,500         9,000         12,000         12,000         15,100-19,500         1,1600-33,000           Btu/h         5,000-12,200         3,500-11,500         5,000-15,200         5,000-15,300         15,100-19,500         1,1600-33,000</th> <th>BLFSHCH12XAJ         DLFSHCH05XAK         DLFSHCH09XAK         DLFSHCH12XAK         DLFSHCH05XAK         DLFSHCH09XAK         DLFSHCH12XAK         DLFSCH         DLFSCH         DLFSCH</th>	BLFSHCH12XAJ         DLFSHCH06XAK         DLFSHCH09XAK         DLFSHCH12XAK         DLFSHCH18XAK           Btu/h         12,000         6,000         9,000         12,000         18,000           Btu/h         3,500-13,200         3,400-12,000         3,300-14,300         3,900-14,300         8,900-19,400           Btu/h         23.5         26.5         28.1         25.5         21.5           Btu/h         12,000         7,000         12,000         12,000         18,000           Btu/h         8,400         8,500         9,500         10,000         15,000           Btu/h         7,100         7,500         10,500         12,000         18,000           Btu/h         8,500         9,000         12,000         12,000         18,000           Btu/h         8,500         9,000         12,000         12,000         10,000           Btu/h         8,500         9,000         12,000         12,000         10,000         10,000           Btu/h         5,000-12,200         3,500-11,500         5,000-15,200         5,000-15,300         15,100-19,500           W/W         3.52         3.92         3.81         3.88         3.10           W/W         3.	BLFSHCH12XAJ         DLFSHCH06XAK         DLFSHCH09XAK         DLFSHCH12XAK         PKB           Btu/h         12,000         4,000         9,000         12,000         8,900-19,400         6,850-27,000           Btu/h         23,500-13,200         3,400-12,000         3,300-14,300         8,900-19,400         6,850-27,000           Btu/h         13,00         15,80         21,50         14,0         12,5         21,5           Btu/h         12,000         7,000         12,000         12,000         18,000         29,000           Btu/h         8,400         8,500         9,500         10,500         12,000         18,000         25,200           Btu/h         8,500         9,000         12,000         12,000         18,000         27,200           Btu/h         8,500         9,000         12,000         12,000         15,100-19,500         1,1600-33,000           Btu/h         5,000-12,200         3,500-11,500         5,000-15,200         5,000-15,300         15,100-19,500         1,1600-33,000	BLFSHCH12XAJ         DLFSHCH05XAK         DLFSHCH09XAK         DLFSHCH12XAK         DLFSHCH05XAK         DLFSHCH09XAK         DLFSHCH12XAK         DLFSCH         DLFSCH         DLFSCH

### Cassette Indoor Unit Vitocal IND-C / DLFSCAH and DLFSCBH Series

Size		9K	12K	18K	24K	36K	48K
Indoor Model		DLFSCAH09XAK	DLFSCAH12XAK	DLFSCAH18XAK	DLFSCBH24XAK	DLFLCBH36XAK	DLFLCBH48XAK
ENERGY STAR®		YES	YES	YES	YES	NO	NO
Cooling System Tons		0.75	1.00	1.33	2.00	3.0	4.0
Cooling Rated Capacity	Btu/h	9,000	12,000	16,000	24,000	36,000	48,000
Cooling Cap. Range Min - Max	Btu/h	2,850~11,100	3,000~13,700	5,600~17,000	8,000~25,000	12,400~36,000	16,600~48,000
SEER2		20.5	22.3	20.0	20.5	19.2	18.5
EER2		13.0	12.7	12.5	11.0	9.4	9.5
Heating Rated Capacity 47° F (8° C)	Btu/h	9,800	12,000	17,000	25,000	38,000	50,000
Heating Rated Capacity 17° F (-8° C)	Btu/h	9,000	9,900	15,900	21,000	23,000	28,000
Heating Maximum Capacity 5° F (-15° C)	Btu/h	10,000	11,300	16,000	25,800	25,300	37,900
Heating Maximum Capacity 17° F (-8° C)	Btu/h	11,800	14,000	17,000	25,800	22,300	30,200
Heating Cap. Range Min - Max	Btu/h	2,250~12,500	2,000~15,300	8,700~21,000	11,800~27,000	11,200~38,000	11,850~52,000
HSPF2		10.3	10.2	9.5	11.5	11.5	11.5
COP 47° F (8° C)	W/W	3.09	3.26	2.95	3.5	3.01	3.10
COP 17° F (-8° C)	W/W	1.91	2.54	2.44	2.64	1.90	1.80
COP 5° F (-15° C)	W/W	1.80	1.90	1.75	2.00	2.02	1.92

### Ducted Indoor Unit Vitocal IND-D / DLFSDAH Series

Size		9K	12K	18K	24K	36K	48K	58K
Indoor Model		DLFSDAH09XAK	DLFSDAH12XAK	DLFSDAH18XAK	DLFSDAH24XAK	DLFLDAH36XAK	DLFLDAH48XAK	DLFLDAH58XAK
ENERGY STAR®		YES	YES	YES	YES	NO	NO	NO
Cooling System Tons		0.75	1.0	1.61	1.61	3.0	4.0	4.8
Cooling Rated Capacity	Btu/h	9,000	12,000	16,500	24,000	36,000	48,000	57,000
Cooling Cap. Range Min - Max	Btu/h	2,400~12,500	2,250~14,400	6,500~18,800	6,500~27,800	5,900~36,000	12,000~48,000	13,000~59,000
SEER2		20.2	19.5	18.0	19.2	15.8	15.1	17.0
EER2		13.2	11.7	11.7	12.0	8.8	8.5	10.3
Heating Rated Capacity 47° F (8° C)	Btu/h	10,000	12,500	19,000	25,000	40,000	50,000	60,000
Heating Rated Capacity 17° F (-8° C)	Btu/h	10,100	10,600	15,000	21,000	27,000	29,000	35,400
Heating Rated Capacity 5° F (-15° C)	Btu/h	10,800	12,100	17,700	27,000	25,000	29,000	35,400
Heating Maximum Capacity 17° F (-8° C)	Btu/h	11,600	12,600	19,000	24,000	22,000	32,000	35,000
Heating Cap. Range Min - Max	Btu/h	1,700~15,600	1,800~16,300	8,900~22,000	12,200~32,200	12,700~40,000	11,600~50,000	12,000~61,000
HSPF2		12.0	10.0	9.5	10.5	10.0	10.0	10.0
COP 47° F (8° C)	W/W	3.37	3.56	2.93	3.30	3.37	3.00	3.50
COP 17° F (-8° C)	W/W	2.40	2.50	2.27	2.64	2.63	2.57	2.50
COP 5° F (-15° C)	W/W	1.90	1.96	1.85	2.00	1.90	1.95	2.01

### Console Indoor Unit Vitocal IND-F / DLFSFBH and DLFSFAH Series

Size		12K	18K	24 K	36K	48K	58K
Indoor Model		DLFSFBH12XAK	DLFSFAH18XAK	DLFSFAH24XAK	DLFLFAH36XAK	DLFLFAH48XAK	DLFLFAH58XAK
ENERGY STAR®		YES	YES	YES	NO	NO	NO
Cooling System Tons		1.0	1.42	2.0	3.0	4.0	4.5
Cooling Rated Capacity	Btu/h	12,000	17,000	24,000	36,000	48,000	54,000
Cooling Cap. Range Min - Max	Btu/h	7,600~14,400	7,800~19,900	5,400~26,800	11,400~36,000	15,800~48,000	15,000~54,000
SEER2		24.2	20.5	20.5	19.0	18.9	19.8
EER2		13.3	12.5	11.7	8.5	9.3	9.8
Heating Rated Capacity 47° F (8° C)	Btu/h	12,000	18,000	25,000	38,000	50,000	60,000
Heating Rated Capacity 17° F (-8° C)	Btu/h	10,200	12,000	19,000	23,000	29,000	35,000
Heating Rated Capacity 5° F (-15° C)	Btu/h	11,600	16,000	25,000	23,000	29,000	35,000
Heating Maximum Capacity 17° F (-8° C)	Btu/h	12,800	17,000	28,600	22,000	28,000	30,000
Heating Cap. Range Min - Max	Btu/h	5,000~15,700	8,600~21,500	12,500~30,500	11,400~38,000	12,000~50,000	17,000~62,000
HSPF2		10.7	9.8	11.0	10.0	10.0	10.0
COP 47° F (8° C)	W/W	4.10	3.01	3.56	2.80	2.50	3.00
COP 17° F (-8° C)	W/W	2.71	2.30	2.64	2.34	2.52	2.49
COP 5° F (-15° C)	W/W	2.08	1.80	2.10	1.80	1.95	1.90

## High Static Ducted Indoor Unit Vitocal IND-D / DLFSDAH Series

Size		9K	12K	18K	24K	36K	48K	58K
Indoor Model		DLFSDAH09XHK	DLFSDAH12XHK	DLFSDAH18XHK	DLFSDAH24XHK	DLFLDAH36XHK	DLFLDAH48XHK	DLFLDAH58XHK
ENERGY STAR®		YES	YES	YES	YES	NO	NO	NO
Cooling System Tons		0.75	1.0	1.46	2.0	3.00	4.00	4.92
Cooling Rated Capacity	Btu/h	9,000	12,000	17,500	24,000	36,000	48,000	59,000
Cooling Cap. Range Min - Max	Btu/h	3,450~13,000	4,000~14,000	7,000~18,700	6,500~27,800	8,900-37,000	10,500-48,800	12,000-62,000
SEER2		20.5	20.0	18.0	19.2	16.0	15.2	17.0
EER2		13.6	12.0	12.1	12.0	9.2	8.8	10.3
Heating Rated Capacity 47° F (8° C)	Btu/h	9,800	12,000	19,000	25,000	39,500	50,000	60,000
Heating Rated Capacity 17° F (-8° C)	Btu/h	8,600	9,700	15,700	21,000	26,200	35,000	34,400
Heating Rated Capacity 5° F (-15° C)	Btu/h	10,800	12,000	18,000	24,000	26,400	35,600	31,000
Heating Maximum Capacity 17° F (-8° C)	Btu/h	12,000	12,200	20,000	24,000	26,400	40,000	36,000
Heating Cap. Range Min - Max	Btu/h	4,550-14,000	3,600-15,000	5,900-23,000	12,200-32,200	12,800-42,000	11,000-55,600	12,000-60,000
HSPF2		10.0	9.5	10.8	11.1	10.2	9.7	8.4
COP 47° F (8° C)	W/W	3.46	3.35	3.71	3.30	3.18	3.19	3.52
COP 17° F (-8° C)	W/W	2.30	2.58	2.60	2.75	2.52	2.36	2.46
COP 5° F (-15° C)	W/W	1.90	1.85	2.20	2.00	2.08	1.93	2.00

### Air Handler Indoor Unit Vitocal IND-A / DLFSABH Series

Size		18K	24K	30K	36K	36K	48K	60K
Indoor Model		DLFSABH18XBK	DLFSABH24XBK	DLFSABH30XBK	DLFSABH36XBK	DLFLABH36XAK	DLFLABH48XAK	DLFLABH60XAK
ENERGY STAR®		YES	YES	NO	NO	NO	NO	NO
Cooling System Tons		1.5	1.92	2.5	3.0	3.0	4.0	4.8
Cooling Rated Capacity	Btu/h	18,000	23,000	30,000	36,000	36,000	48,000	57,000
Cooling Cap. Max	Btu/h	21,000	25,600	33,600	38,000	11,600~41,000	11,800~51,900	11,000~60,000
SEER2		17.6	18.4	17.5	15.4	15.4	15.3	16.0
EER2		11.7	11.7	11.2	8.2	8.2	8.2	9.6
Heating Rated Capacity 47° F (8° C)	Btu/h	19,000	26,000	30,000	38,000	38,000	55,000	60,000
Heating Rated Capacity 17° F (-8° C)	Btu/h	15,400	16,900	20,500	27,000	25,600	37,500	34,000
Heating Rated Capacity 5° F (-15° C)	Btu/h	17,600	23,500	20,500	20,900	27,000	37,500	34,600
Heating Maximum Capacity 17° F (-8° C)	Btu/h	18,200	25,000	22,000	27,200	22,000	31,000	33,000
Heating Cap. Range Min - Max	Btu/h	9,000~21,000	5,600~29,000	12,000~32,000	9,200~43,000	9,200-43,000	11,900~58,000	12,000~60,400
HSPF2		9.6	9.3	8.4	9.0	8.5	8.5	8.5
COP 47° F (8° C)	W/W	3.39	3.50	3.52	3.10	3.35	3.03	3.20
COP 17° F (-8° C)	W/W	2.70	2.39	2.40	2.53	2.61	2.46	2.52
COP 5° F (-15° C)	W/W	2.00	1.94	1.90	1.79	1.90	1.75	1.81

### One Way Cassette Indoor Unit Vitocal IND-O / DLFSOAH Series

Size		6K	9K	12K	18K
Indoor Model			DLFSOAH09XAK		DLFSOAH18XAK
ENERGY STAR®		YES	YES	YES	YES
Cooling System Tons		0.5	0.75	1.0	1.5
Cooling Rated Capacity	Btu/h	6,500	9,000	12,000	16,700
Cooling Cap. Range Min - Max	Btu/h	3,600~11,200	3,600~12,200	4,000~14,100	6,100~17,500
SEER2		22.0	24.0	23.0	19.8
EER2		14.5	13.0	13.0	12.5
Heating Rated Capacity 47° F (8° C)	Btu/h	9,700	12,000	14,800	20,000
Heating Rated Capacity 17° F (-8° C)	Btu/h	5,700	9,800	9,500	12,500
Heating Rated Capacity 5° F (-15° C)	Btu/h	8,000	10,500	11,000	16,700
Heating Maximum Capacity 17° F (-8° C)	Btu/h	10,000	11,400	11,500	18,800
Heating Cap. Range Min - Max	Btu/h	3,700~12,500	4,800~14,000	4,600~15,000	6,450~21,500
HSPF2		10.8	12.4	10.0	11.2
COP 47° F (8° C)	W/W	3.75	3.30	3.56	3.19
COP 17° F (-8° C)	W/W	2.60	2.35	2.48	2.50
COP 5° F (-15° C)	W/W	2.00	1.80	1.80	1.80

# Single Zone Outdoor Units Vitocal 100-S / DLSCRBH and DLCLRCH Series

SYSTEM		-										
Size		12K	6K	9K	12K	18K	24K	30K	36K	36K	48K	58K
Outdoor Model		DLCSRBH12AAJ	DLCSRBH06AAK	DLCSRBH09AAK	DLCSRBH12AAK	DLCSRBH18AAK	DLCSRBH24AAK	DLCSRBH30AAK	DLCSRBH36AAK	DLCLRCH36AAK	DLCLRCH48AAK	DLCLRCH58AAK
ELECTRICAL												
Voltage - Phase-Cycle	V-Ph-Hz	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	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
MCA	A.	19	13	15	15	16	25	23	28	30	35	35
MOCP - Fuse Rating	Α.	25	15	15	15	25	35	30	35	50	50	50
OPERATING RANGE												
Cooling Outdoor DB Min - Max	° F (° C)	-22 to 122 F (-30 to 50 C)	5 to 122 F (-15 to 50 C)	5 to 122 F (-15 to 50 C)	5 to 122 F (-15 to 50 C)							
Heating Outdoor DB Min - Max	° F (° C)	-22~86 (-30~30)	-13 to 75 F (-25 to 24 C)	-13 to 75 F (-25 to 24 C)	-13 to 75 F (-25 to 24 C)							
PIPING												
Total Piping Length	ft (m)	82 (25)	82 (25)	82 (25)	82 (25)	98 (30)	164 (50)	164 (50)	213 (65)	213 (65)	213 (65)	213 (65)
Piping Lift*	ft (m)	32 (10)	32 (10)	32 (10)	32 (10)	65 (20)	82 (25)	82 (25)	98 (30)	98 (30)	98 (30)	98 (30)
Pipe Connection Size - Liquid	in (mm)	% (6.35)	¼ (6.35)	1/4 (6.35)	¼ (6.35)	1/4 (6.35)	3/8 (9.52)	¾ (9.52)	3/8 (9.52)	¾ (9.52)	3/8 (9.52)	³% (9.52)
Pipe Connection Size - Suction	in (mm)	1/2 (12.7)	3/8 (9.52)	³/8 (9.52)	½ (12.7)	½ (12.7)	5/8 (16)	5% (16)	5/8 (16)	5% (16)	5/8 (16)	<sup>7</sup> ⁄8 (22)
REFRIGERANT												
Туре		R410A	R410A	R410A	R410A							
Charge	lbs (kg)	2.47 (1.12)	2.38 (1.08)	2.6 (1.18)	2.6 (1.18)	4.08 (1.85)	5.73 (2.6)	6.06 (2.75)	7.5 (3.4)	6.72 (3.05)	9.26 (4.2)	10.58 (4.8)
COMPRESSOR												
Туре		Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter							
OUTDOOR												
Unit Width	in (mm)	30.12 (765)	30.12 (765)	31.69 (805)	31.69 (805)	35.04 (890)	37.24 (946)	37.24 (946)	37.24 (946)	37.24 (946)	37.48 (952)	37.48 (952)
Unit Height	in (mm)	21.85 (555)	21.85 (555)	21.81 (554)	21.81 (554)	26.50 (673)	31.89 (810)	31.89 (810)	31.89 (810)	31.89 (810)	52.48 (1333)	52.48 (1333)
Unit Depth	in (mm)	11.93 (303)	11.93 (303)	12.99 (330)	12.99 (330)	13.46 (342)	16.14 (410)	16.14 (410)	16.14 (410)	16.14 (410)	16.34 (415)	16.34 (415)
Net Weight	lbs (kg)	66.80 (30.3)	63.71 (28.9)	74.07 (33.6)	73.63 (33.4)	100.97 (45.8)	134.48 (61)	141.76 (64.3)	150.13 (68.1)	148.59 (67.4)	219.14 (99.4)	217.15 (98.5)
Airflow	CFM	794	1,324	1,324	1,324	1,765	2,235	2,235	2,235	2,130	4,500	4,500
Sound Pressure	dB(A)	54.0	54.5	54.5	56.0	59.0	62.0	61.5	61.5	63.0	62.5	61.2

 $<sup>{}^*\</sup>text{Condensing unit above or below indoor unit.}$ 



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