



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

# Ductless multi zone heat pump solution

## VITOCAL 200-S



## Flexible high-performing HVAC solutions for multi zone comfort



## Reasons to love ductless

### Bring Comfort To Multiple Spaces In Any Condition

With extreme temperature performance, Viessmann ductless units provide 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 multiple rooms or an entire home. Multi zone units allow up to five ductless and/or ducted indoor units to each outdoor unit for ultimate application flexibility.

### Save On Energy And Operational Costs

Increase comfort with lower energy use. Our multi zone ductless units deliver up to 26.0 SEER2 and 10.2 HSPF2 ratings. Reduce costs with ENERGY STAR® certified units.

### Enjoy Ultimate System Flexibility

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 temperature at your exact location in the room.

### 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.

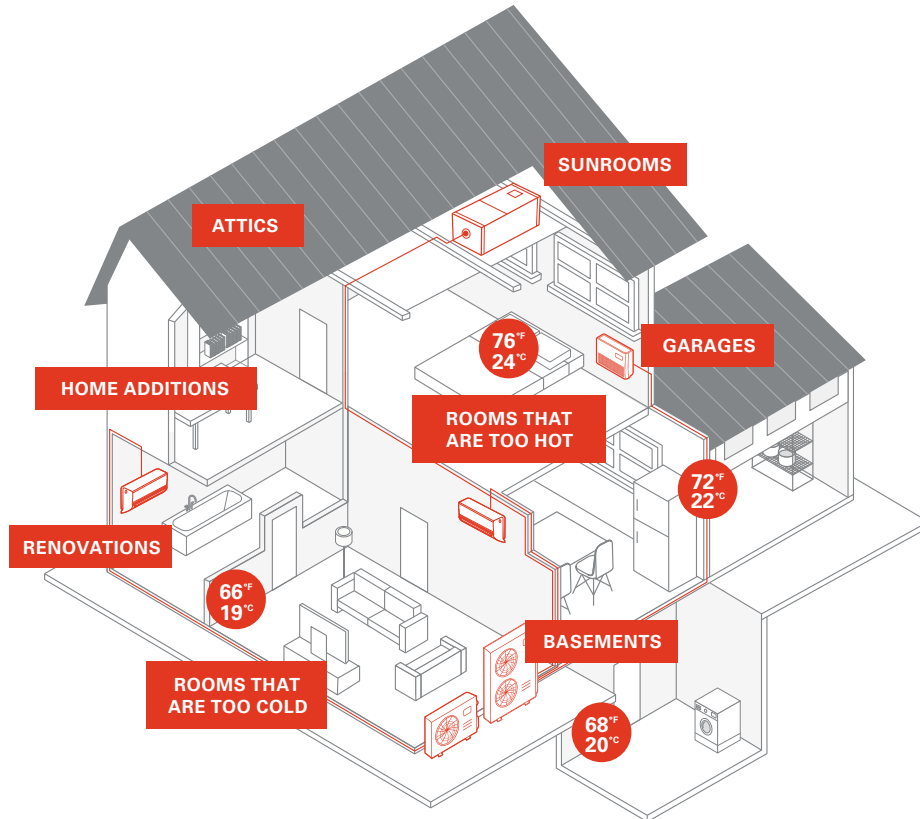
### Rapid Cooling and Heating

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 multiple rooms, or an entire home



## Options for every space & style

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

HIGH WALL	FLOOR CONSOLE OR UNDER CEILING	DUCTED	CEILING CASSETTE	MULTI-POSITION AIR HANDLER	ONE-WAY CASSETTE	OPTIONAL WIRED CONTROLLER
						
<ul style="list-style-type: none"> <li>+ Wall-mounted</li> <li>+ Whisper-quiet</li> <li>+ Eco mode</li> </ul>	<ul style="list-style-type: none"> <li>+ Mounted near floor or under ceiling</li> <li>+ Slim profile</li> <li>+ Outside air intake to keep air fresh and clean</li> </ul>	<ul style="list-style-type: none"> <li>+ Recessed into wall or ceiling</li> <li>+ Maximum installation flexibility</li> <li>+ Improved ventilation</li> </ul>	<ul style="list-style-type: none"> <li>+ Recessed into ceiling or under floor</li> <li>+ Discrete or hidden installation</li> <li>+ 360-degree airflow</li> </ul>	<ul style="list-style-type: none"> <li>+ Connects to existing ductwork</li> <li>+ Replaces existing furnace</li> <li>+ Hidden from view</li> </ul>	<ul style="list-style-type: none"> <li>+ Recessed into ceiling</li> <li>+ Slim and compact</li> <li>+ Follow Me temperature sensor</li> </ul>	<ul style="list-style-type: none"> <li>+ Wall-mounted</li> <li>+ 7-day programmable</li> <li>+ Customizable schedules</li> </ul>

## AIR-TO-AIR HEAT PUMP SYSTEM

▲ The Vitocal 200-S multi zone ductless and ducted systems can cut 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 North America. Why? They use the same process as traditional HVAC systems to heat and cool your home or business facility without the need for ductwork. Often called "mini-splits," multi zone systems work by connecting a single outdoor unit to up to 5 ductless or ducted 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. Vitocal 200-S multi zone systems also offer ducted indoor units for applications where ducting is preferred.

### **Ductless and Ducted solutions deliver on benefits**

To help you stay competitive and successful, Viessmann offers a family of flexible ductless and ducted 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)\*.

\* Outdoor unit operating ranges may vary by model

## Simple installation and maintenance

### Flexible Installation

Piping flexibility up to a total piping length of 328 ft. (100 m).

### 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.

### Air Handling Unit (AHU)

The AHU leverages existing ductwork - the perfect replacement for aging or failing furnaces without a complete system overhaul.

### Third-Party Thermostat Compatibility

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

### Multi Zone Versatility

Select from a mix of up to 5 indoor units that have been engineered to match perfectly with a single Vitocal 200-S outdoor unit to deliver maximum performance and comfort to multiple zones with the flexibility of ductless or ducted indoor units.

### Larger Capacity Options

The Viessmann multi 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
- + Multi-family developments, assisted living facilities, hotels, and more
- + New construction and renovations

### BENEFITS AT A GLANCE

- + Energy savings - Up to 26.0 SEER2 and 10.2 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 optional 24V interface kit
- + 5 models with ENERGY STAR certification

PERFORMANCE

Vitocal 200-S / DLCMRBH and DLCMHBH Series  
Outdoor Unit

SYSTEM								
Size		18R	24HH	30HH	36R	36HH	48R	48HH
Outdoor Model		DLCMRBH18BAK	DLCMHBH24CAK	DLCMHBH30DAK	DLCMRBH36DAK	DLCMHBH36DAK	DLCMRBH48EAK	DLCMHBH48EAK
Max Number of Zones		2	3	4	4	4	5	5
OPERATING RANGE								
Cooling Outdoor DB Min - Max	° F (° 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)	5 to 122 F (-15 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)	-13~75 F (-25~24 C)	-13~75 F (-25~24 C)	-13~75 F (-25~24 C)	-13~75 F (-25~24 C)	-13~75 F (-25~24 C)	-13~75 F (-25~24 C)	-13~75 F (-25~24 C)
PIPING								
Total Piping Length	ft (m)	131 (40)	197 (60)	262 (80)	262 (80)	262 (80)	328 (100)	328 (100)
Piping to furthest FCU	ft (m)	82 (25)	98 (30)	115 (35)	115 (35)	115 (35)	115 (35)	115 (35)
Drop (OD above ID)	ft (m)	49 (15)	49 (15)	49 (15)	49 (15)	65 (20)	65 (20)	65 (20)
Lift (OD below ID)	ft (m)	49 (15)	49 (15)	49 (15)	49 (15)	65 (20)	65 (20)	65 (20)
Pipe Connection Size - Liquid	in (mm)	¼*2 (6.35*2)	¼*3 (6.35*3)	¼*4 (6.35*4)	¼*4 (6.35*4)	¼*4 (6.35*4)	¼*5 (6.35*5)	¼*5 (6.35*5)
Pipe Connection Size - Suction	in (mm)	¾*2 (9.52*2)	¾*3 (9.52*3)	½ *1+ ¾*3 (12.7*1+9.52*3)	½ *1+ ¾*3 (12.7*1+9.52*3)	½ *2+ ¾*2 (12.7*2+9.52*2)	½ *2+ ¾*3 (12.7*2+9.52*3)	½ *2+ ¾*3 (12.7*2+9.52*3)
REFRIGERANT								
Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A
Charge	lbs (kg)	4.08 (1.85)	5.73 (2.6)	8.38 (3.8)	8.38 (3.8)	10.14 (4.6)	10.14 (4.6)	10.14 (4.6)
ELECTRICAL								
Voltage-Phase-Cycle	V-Ph-Hz	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
Power Supply		Indoor Unit Powered From Outdoor Unit	Indoor Unit Powered From Outdoor Unit	Indoor Unit Powered From Outdoor Unit	Indoor Unit Powered From Outdoor Unit	Indoor Unit Powered From Outdoor Unit	Indoor Unit Powered From Outdoor Unit	Indoor Unit Powered From Outdoor Unit
MCA	A.	18	24.5	25	25	40	40	40
Recommended Fuse Size	A.	20	25	30	30	45	45	45
MOCP - Fuse Rating	A.	25	30	40	40	60	60	60
Compressor	Type	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter	Rotary Inverter
OUTDOOR								
Unit Width	in (mm)	35.04 (890)	37.24 (946)	37.24 (946)	37.24 (946)	37.48 (952)	37.48 (952)	37.48 (952)
Unit Height	in (mm)	26.50 (673)	31.89 (810)	31.89 (810)	31.89 (810)	52.48 (1333)	52.48 (1333)	52.48 (1333)
Unit Depth	in (mm)	13.46 (342)	16.14 (410)	16.14 (410)	16.14 (410)	16.34 (415)	16.34 (415)	16.34 (415)
Net Weight	lbs (kg)	100.31 (45.5)	139.77 (63.4)	169.09 (76.7)	169.09 (76.7)	223.10 (101.2)	225.50 (102.3)	238.32 (108.1)
Airflow	CFM	1,765	2,129	2,147	2,147	4,500	4,500	4,500
Sound Pressure	dB(A)	59	61	63	63	64	64	65

## Vitocal 200-S / DLCMRBH and DLCMHBH Series Outdoor Unit - Ducted

Size		18R	24HH	30HH	36R	36HH	48R	48HH
<b>Outdoor Model</b>		DLCMRBH18BAK	DLCMHBH24CAK	DLCMHBH30DAK	DLCMRBH36DAK	DLCMHBH36DAK	DLCMRBH48EAK	DLCMHBH48EAK
<b>Max Number of Zones</b>		2	3	4	4	4	5	5
<b>ENERGY STAR®</b>		NO	YES	NO	NO	NO	NO	NO
<b>Cooling System Tons</b>		1.5	2.0	2.5	3.0	3.0	4.0	4.0
<b>Cooling Rated Capacity</b>	Btu/h	18,000	24,000	30,000	36,000	36,000	48,000	48,000
<b>Cooling Cap. Range Min - Max</b>	Btu/h	3,800-22,400	6,100-30,700	6,100-30,700	8,700-41,300	9,800-47,000	10,500-54,000	10,200-53,500
<b>SEER2</b>		21.0	22.95	23.0	21.95	20.60	21.95	21.35
<b>EER2</b>		12.95	12.95	12.50	11.35	12.65	11.65	11.70
<b>Heating Rated Capacity 47° F (8° C)</b>	Btu/h	19,000	24,000	30,000	37,000	37,000	50,000	50,000
<b>Heating Maximum Capacity 5° F (-15° C)</b>	Btu/h	13,000	21,500	28,600	24,000	36,000	36,000	48,000
<b>Heating Cap. Range Min - Max</b>	Btu/h	4,300-25,800	7,300-33,700	6,600-43,200	6,900-46,700	13,300-47,000	15,500-56,000	12,000-59,000
<b>HSPF2</b>		10.8	10.5	10.0	10.7	11.0	10.1	10.5
<b>COP 47° F (8° C)</b>	W/W	3.80	3.81	3.81	3.60	3.74	3.57	3.86
<b>COP 5° F (-15° C) - Maximum</b>	W/W	1.75	1.95	1.85	1.68	1.80	1.80	1.85

## Non-Ducted

Size		18R	24HH	30HH	36R	36HH	48R	48HH
<b>Outdoor Model</b>		DLCMRBH18BAK	DLCMHBH24CAK	DLCMHBH30DAK	DLCMRBH36DAK	DLCMHBH36DAK	DLCMRBH48EAK	DLCMHBH48EAK
<b>Max Number of Zones</b>		2	3	4	4	4	5	5
<b>ENERGYSTAR®</b>		YES	YES	YES	NO	YES	YES	NO
<b>Cooling System Tons</b>		1.5	2.0	2.5	3.0	3.0	4.0	4.0
<b>Cooling Rated Capacity</b>	Btu/h	18,000	24,000	30,000	36,000	36,000	48,000	48,000
<b>Cooling Cap. Range Min-Max</b>	Btu/h	5,600-22,000	9,500-32,100	9,400-41,800	8,200-41,600	9,600-45,100	9,900-53,200	9,700-53,300
<b>SEER2</b>		22.9	24.6	26.0	23.9	22.2	23.4	21.8
<b>EER2</b>		13.9	13.4	13.0	11.7	13.6	12.5	11.7
<b>Heating Rated Capacity (47°F)</b>	Btu/h	19,000	25,000	30,000	37,000	36,500	48,000	49,000
<b>Heating Maximum Capacity (5°F)</b>	Btu/h	12,400	23,000	29,400	23,900	36,000	36,000	48,000
<b>Heating Cap. Range Min-Max</b>	Btu/h	5,000-24,400	8,400-34,000	8,100-41,400	8,000-44,700	12,500-49,000	12,500-52,000	11,500-58,000
<b>HSPF2</b>		10.5	10.0	9.8	9.5	10.3	8.7	9.8
<b>COP(47°F)</b>	W/W	3.92	4.10	3.81	3.61	3.85	3.60	3.59
<b>COP(5°F)-Maximum</b>	W/W	1.75	1.75	1.90	1.75	1.75	1.75	2.00

## Mixed Ducted and Non-Ducted

Size		18R	24HH	30HH	36R	36HH	48R	48HH
<b>Outdoor Model</b>		DLCMRBH18BAK	DLCMHBH24CAK	DLCMHBH30DAK	DLCMRBH36DAK	DLCMHBH36DAK	DLCMRBH48EAK	DLCMHBH48EAK
<b>Max Number of Zones</b>		2	3	4	4	4	5	5
<b>ENERGY STAR®</b>		YES	YES	NO	NO	YES	NO	NO
<b>Cooling System Tons</b>		1.5	2.0	2.5	3.0	3.0	4.0	4.0
<b>Cooling Rated Capacity</b>	Btu/h	18,000	24,000	30,000	36,000	36,000	48,000	48,000
<b>Cooling Cap. Range Min - Max</b>	Btu/h	4,700-22,200	7,800-31,400	8,700-40,700	8,400-41,400	9,700-43,200	10,200-53,600	9,900-53,400
<b>SEER2</b>		19.0	21.3	20.0	20.0	19.0	20.5	20.9
<b>EER2</b>		12.0	12.5	12.0	11.0	11.7	10.8	11.7
<b>Heating Rated Capacity 47° F (8° C)</b>	Btu/h	19,000	24,500	30,000	37,000	36,750	49,000	49,500
<b>Heating Maximum Capacity 5° F (-15° C)</b>	Btu/h	12,700	22,000	29,000	23,900	36,000	36,000	48,000
<b>Heating Cap. Range Min - Max</b>	Btu/h	4,600-25,100	7,800-33,800	7,385-42,300	7,400-45,700	12,900-48,000	14,000-54,000	11,750-58,500
<b>HSPF2</b>		10.7	10.8	10.7	11.0	11.0	10.6	10.8
<b>COP 47° F (8° C)</b>	W/W	3.86	3.96	3.81	3.61	3.80	3.59	3.73
<b>COP 5° F (-15° C) - Maximum</b>	W/W	1.75	1.85	1.88	1.72	1.80	1.80	1.90



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