



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

## Ducted single zone heat pump solution

## VITOCAL 100-S



# Get the benefits of inverter technology and traditional HVAC – all at once



# Reasons to love Viessmann single zone ducted heat pump solutions

## The Best Of Two Technologies In One Whole-Home System

Viessmann single zone ducted heat pump solutions combine the best of inverter heat pumps and traditional HVAC.

That means you get the quiet operation, small footprint and enhanced efficiency of inverter technology and the high performance of traditional ducted units.

#### Performance in All Climates

With high performance in extreme temperatures, the Viessmann single zone ducted units provide reliable heating and cooling even in extreme weather, from -22°F to 130°F (-30°C to 55°C). With a traditional ducted air handler or cased evaporator coil, it's easy to incorporate powerful and efficient comfort into new or existing ducted systems.

#### Save On Energy And Operational Costs

Inverter technology provides consistent temperature control and can reduce energy costs by up to 30%. Energy Star Certified units available up to 18.0 SEER2 and 9.8 HSPF2.

#### Flexible Temperature Control

A built-in 24V interface ensures systems come ready to easily connect with your favorite brand of thermostat. Control your system, your way.

#### Hassle-Free Retrofitting

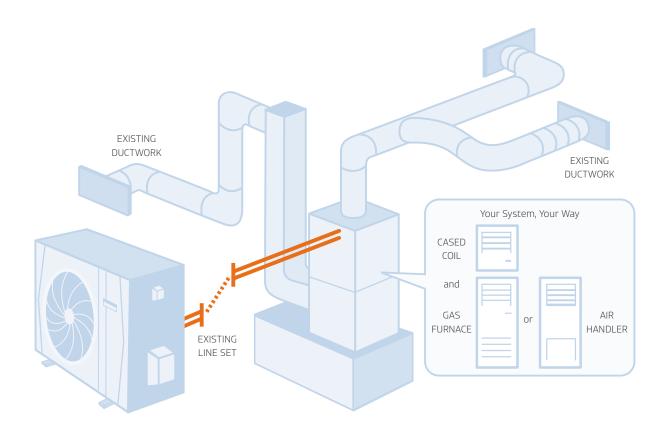
Easy integration with existing equipment and piping makes upgrading air systems a breeze. You decide what to keep or upgrade, the Vitocal 100-S ducted single zone heat pump solution integrates with existing systems and components.

#### **Compact Design**

A low-profile, unobtrusive outdoor unit delivers efficient comfort in a quarter of the space of a traditional top discharge outdoor unit. Making this system an ideal option for homes with zero lot lines or limited outdoor space.

#### **Whisper Quiet Operation**

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



## The Vitocal 100-S Ducted Difference

## Seamless Integration With Existing HVAC Systems

The Viessmann Vitocal 100-S ducted single zone heat pump is a unique solution that provides the benefits of high efficiency, quiet, and space-saving inverter technology while allowing you to re-use existing HVAC line sets, ductwork, air handler, or furnaces.

The Viessmann Vitocal 100-S Ducted heat pump solution is an ideal choice when upgrading your home's current HVAC system, constructing a new home or adding on to an existing one.

#### Spend Less On Variable Speed Features

Viessmann variable speed inverter technology delivers high efficiency performance, whisper quiet operation, and energy savings all while taking up a quarter of the space of a traditional heat pump or air conditioner.

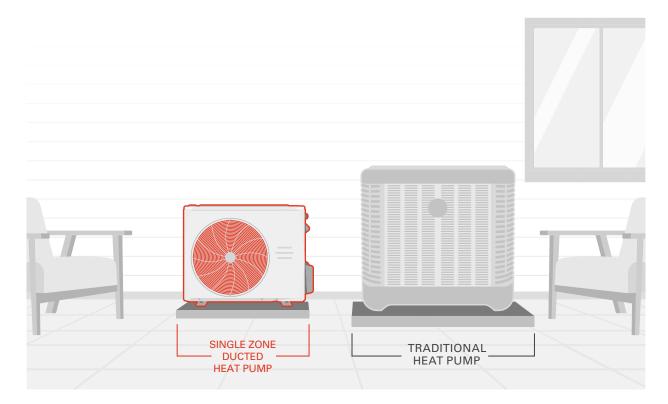
#### Save Time And Money With a Mess-Free Installation

If you want to add or upgrade an air conditioner or heat pump system, the Vitocal 100-S ducted single zone heat pump solution makes it simple to pair with an existing setup. Avoid ripping through walls with this seamless mess-free installation. The best news of all is that the connection between the outside unit and the inside unit stays the same. You can reuse existing infrastructure, resulting in faster cost-efficient installation.

#### Keep Your Furnace Or Go Electric

Whether you want to keep your furnace for dual fuel, or convert to an all-electric heat pump system the Vitocal 100-S ducted single zone heat pump solution adapts to your comfort requirements with the ability to integrate with your existing HVAC system.

# A compact outdoor unit that delivers efficient comfort in a quarter of the space



It is no secret that inverter and traditional HVAC heat pump systems each have their own set of advantages. So why not reap the benefits of both? With Viessmann single zone ducted units you get the versatility and flexibility you have been looking for by combining traditional indoor HVAC equipment with advanced inverter heat pump technology.

Viessmann single zone ducted heat pump solutions provide a system that maintains the traditional ducted heating and cooling characteristics while leveraging inverter technology. Our systems are compatible with residential fan coils and furnaces, ensuring a seamless integration with your existing HVAC setup.

#### Versatile HVAC Systems For Endless Comfort Possibilities

Our single zone ducted heat pump solutions seamlessly blend inverter technology with traditional HVAC ducts, furnaces and fan coils - all in a single system. The result? An exceptionally efficient, high performance and totally versatile solution for residential and light commercial spaces.

#### \* Outdoor unit operating ranges may vary by model

#### Ducted Heat Pump Solutions Deliver On Benefits

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

Whether you are looking to give your existing HVAC system a boost of efficiency, increase capacity for an expansion or find the perfect fit for a new build—this portfolio provides the advanced comfort and flexibility to meet the needs of any application.

#### Efficient Inverter Technology

Viessmann single zone ducted heat pump 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)\*.

## Installation Flexibility

#### Simple Retrofit Installation

Easily connect systems to existing line sets ductwork, controlled via third-party thermostats with no additional accessories or interfaces required, resulting in a seamless mess-free installation.

#### Low Ambient Cooling Kit

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

#### Easy Transport And Maneuverability

Units are a light enough weight to be carried by a single technician.

#### Multi-position Air Handler

4-way installation for added installation flexibility (Up flow, Down flow, Right, Left) with automatic airflow technology for static pressure up to 0.8 inWG.

#### Third-Party Thermostat Compatibility

Vitocal ducted heat pumps come ready to connect with your favorite brand of thermostat.

#### Minimal Footprint

Easier to install, transport, and store with a compact design compared to traditional top discharge units.

#### **Larger Capacity Options**

The Viessmann Vitocal 100-S ducted single zone heat pumps are offered in capacties large enough to accommodate light commercial applications while delivering the same quiet optimized performance of our residential capacities.

#### **CHALLENGES DUCTED CAN SOLVE**

- + Existing HVAC systems with low efficiencies
- + Direct system replacements
- + New build construction
- + Limited outdoor space

#### **BENEFITS AT A GLANCE**

- + Energy savings Energy Star Certified units available up to 18.0 SEER2 and 9.8 SPF2
- + 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 retrofit installation Easily connect systems to existing line sets and ductwork
- + Flexible options Compatible with third-party thermostats with built-in 24V interface

TECHNICAL DATA

AIR-TO-AIR HEAT PUMP SYSTEM

#### **PERFORMANCE**

## Outdoor Unit (Standard Heat) Vitocal 100-S / DLCURAH Series

| SYSTEM   |             |                 |                 |                 |                 |                 |                 |
|--|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Outdoor Size   |             | 1.5T            | 2T              | 2.5T            | 3T              | 4T              | 5T              |
| Outdoor Model  |             | DLCURAH18AAK    | DLCURAH24AAK    | DLCURAH30AAK    | DLCURAH36AAK    | DLCURAH48AAK    | DLCURAH60AAK    |
| 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    |
| MCA  | A.          | 16              | 19              | 20              | 24              | 34              | 34              |
| Recommended Fuse Size                                | A.          | 20              | 20              | 25              | 25              | 35              | 35              |
| MOPA - Fuse Rating                                   | A.          | 20              | 30              | 35              | 40              | 50              | 60              |
| Short Circuit Current Rating (SCCR)                  | kA          | 2.4             | 2.4             | 2.4             | 2.4             | 2.4             | 2.4             |
| OPERATING RANGE                                      |             |                 |                 |                 |                 |                 |                 |
| Cooling Outdoor DB Min-Max                           | °F (°C)     | 5~130 (-15~55)  | 5~130 (-15~55)  | 5~130 (-15~55)  | 5~130 (-15~55)  | 5~130 (-15~55)  | 5~130 (-15~55)  |
| Heating Outdoor DB Min-Max                           | °F (°C)     | -5~86 (-15~30)  | -5~86 (-15~30)  | -5~86 (-15~30)  | -5~86 (-15~30)  | -5~86 (-15~30)  | -5~86 (-15~30)  |
| PIPING   |             |                 |                 |                 |                 |                 |                 |
| Total Piping Length                                  | ft (m)      | 98 (30)         | 164 (50)        | 164 (50)        | 213 (65)        | 213 (65)        | 213 (65)        |
| Piping Lift*   | ft (m)      | 65 (20)         | 82 (25)         | 82 (25)         | 98 (30)         | 98 (30)         | 98 (30)         |
| Pipe Connection Size - Liquid                        | in (mm)     | 3/8 (9.52)      | 3/8 (9.52)      | 3/8 (9.52)      | 3/8 (9.52)      | 3/8 (9.52)      | 3/8 (9.52)      |
| Pipe Connection Size - Suction                       | in (mm)     | 3/4 (19)        | 3/4 (19)        | 3/4 (19)        | 3/4 (19)        | 3/4 (19)        | 7/8 (22)        |
| REFRIGERANT  |             |                 |                 |                 |                 |                 |                 |
| RefrigerantType                                      |             | R410A           | R410A           | R410A           | R410A           | R410A           | R410A           |
| Charge   | lbs (kg)    | 3.53 (1.6)      | 4.63 (2.1)      | 6.72 (3.05)     | 8.16 (3.7)      | 10.4 (4.7)      | 10.8 (4.9)      |
| Add'l Refrigerant (between Std & Max Piping Lengths) | Oz/ft (g/m) | 0.69 (65)       | 0.69 (65)       | 0.69 (65)       | 0.69 (65)       | 0.69 (65)       | 0.69 (65)       |
| Metering Device                                      |             | EEV             | EEV             | EEV             | EEV             | EEV             | EEV             |
| OUTDOOR COIL   |             |                 |                 |                 |                 |                 |                 |
| Face Area  | Sq. Ft.     | 5               | 5.9             | 8.18            | 8.14            | 13.53           | 13.36           |
| No. Rows   |             | 2               | 2               | 2.6             | 3               | 2               | 3               |
| Fins per inch  |             | 20              | 20              | 18              | 18              | 18              | 18              |
| Circuits   |             | 4               | 6               | 6               | 6               | 8               | 14              |
| COMPRESSOR   |             |                 |                 |                 |                 |                 |                 |
| Туре   |             | Rotary Inverter |
| Model  |             | KSN140D21UFZ    | KTM240D57UMT    | KTF250D22UMT    | KTF250D22UMT    | KTQ420D1UMU     | KTQ420D1UMU     |
| Oil Type   |             | VG74            | VG74            | VG74            | VG74            | VG74            | VG74            |
| Oil Charge   | Fl. Oz.     | 14.9            | 22.7            | 22.7            | 22.7            | 47.3            | 47.3            |
| Rated Current  | RLA         | 9               | 14              | 16              | 17.6            | 24              | 24.6            |
| AIRFLOW & SOUND                                      |             |                 |                 |                 |                 |                 |                 |
| Airflow  | CFM         | 1,450           | 1,765           | 3,000           | 2,235           | 4,500           | 4,412           |
| Sound Pressure                                       | dB(A)       | 54              | 60              | 62              | 61              | 59              | 61              |

<sup>\*</sup> Condensing unit above or below indoor unit

### Outdoor Unit (Standard Heat) Vitocal 100-S / DLCURAH Series

|                               | _     |            |            |             |            |             |             |
|-------------------------------|-------|------------|------------|-------------|------------|-------------|-------------|
| Outdoor Size                  |       | 1.5T       | 2T         | 2.5T        | 3T         | 4T          | 5T          |
| M RATINGS                     |       |            |            |             |            |             |             |
| Indoor Model                  |       | 18K        | 24K        | 30K         | 36K        | 48K         | 60K         |
| Cooling Rated Capacity        | Btu/h | 18,000     | 24,000     | 30,000      | 36,000     | 47,000      | 57,000      |
| Cooling Cap. Range Min-Max    | Btu/h | 5400~18700 | 7500~26000 | 9500~33000  | 8900~38900 | 10500~48000 | 4400~60200  |
| SEER                          |       | 19.0       | 19.4       | 19.5        | 18.0       | 17.3        | 18.0        |
| EER                           |       | 11.1       | 11.3       | 10.9        | 10.4       | 9.3         | 10.3        |
| Heating Rated Capacity (47°F) | Btu/h | 18,000     | 26,000     | 31,000      | 36,000     | 55,000      | 60,000      |
| Heating Rated Capacity (17°F) | Btu/h | 11,500     | 17,000     | 19,000      | 21,000     | 33,000      | 33,800      |
| Heating Rated Capacity (5°F)  | Btu/h | 9,500      | 17,000     | 20,000      | 21,000     | 27,000      | 29,000      |
| Heating Cap. Range Min-Max    | Btu/h | 5600~18700 | 5600~30000 | 12200~32000 | 6000~36400 | 11700~57000 | 11400~63100 |
| HSPF                          |       | 10.8       | 11.3       | 10.3        | 9.1        | 10.0        | 9.2         |
| COP (47°F)                    | W/W   | 3.49       | 3.54       | 3.19        | 3.02       | 3.00        | 3.55        |
| COP (17°F)                    | W/W   | 2.70       | 2.75       | 2.30        | 2.25       | 2.00        | 2.45        |
| COP (5°F)                     | W/W   | 1.85       | 1.75       | 1.95        | 1.80       | 1.72        | 1.80        |
| M1 RATINGS                    |       |            |            |             |            |             |             |
| Cooling Rated Capacity        | Btu/h | 18,000     | 24,000     | 30,000      | 36,000     | 47,000      | 57,000      |
| Cooling Cap. Range Min-Max    | Btu/h | 5400~18700 | 7500~26000 | 9500~33000  | 8900~38900 | 10500~48000 | 4400~60200  |
| SEER2                         |       | 16.0       | 17.0       | 17.3        | 16.9       | 15.8        | 14.7        |
| EER2                          |       | 10.9       | 10.5       | 10.6        | 10.1       | 8.8         | 8.8         |
| Heating Rated Capacity (47°F) | Btu/h | 18,000     | 26,000     | 31,000      | 36,000     | 55,000      | 60,000      |
| Heating Rated Capacity (17°F) | Btu/h | 11,500     | 20,700     | 20,000      | 20,500     | 36,500      | 36,000      |
| Heating Rated Capacity (5°F)  | Btu/h | 10,000     | 17,000     | 17,800      | 21,000     | 36,500      | 34,800      |
| Heating Cap. Range Min-Max    | Btu/h | 5600~18700 | 5600~30000 | 12200~32000 | 6000~36400 | 11700~57000 | 11400~63100 |
| HSPF2                         |       | 8.8        | 9.2        | 8.5         | 8.2        | 9.4         | 8.5         |
| COP (47°F)                    | W/W   | 3.50       | 3.45       | 3.25        | 3.39       | 3.15        | 3.45        |
| COP (17°F)                    | W/W   | 2.75       | 2.40       | 2.45        | 2.40       | 2.30        | 2.35        |
| COP (5°F)                     | W/W   | 1.90       | 2.00       | 1.75        | 1.88       | 1.98        | 1.89        |

## Outdoor Unit (High Heat) Vitocal 100-S / DLCURAH Series

| SYSTEM   |                |                  |                  |                  |                  |                  |                  |
|--|----------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Outdoor Size   |                | 1.5T - HH        | 2T - HH          | 2.5T - HH        | 3T - HH          | 4T - HH          | 5T - HH          |
| Outdoor Model  |                | DLCURAH18ABK     | DLCURAH24ABK     | DLCURAH30ABK     | DLCURAH36ABK     | DLCURAH48ABK     | DLCURAH60ABK     |
| 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     |
| MCA  | A.             | 16               | 20.5             | 23               | 41               | 42               | 42               |
| Recommended Fuse Size                                      | A.             | 20               | 25               | 25               | 45               | 45               | 45               |
| MOCP - Fuse Rating   | A.             | 20               | 35               | 35               | 50               | 50               | 60               |
| Short Circuit Current Rating (SCCR)                        | kA             | 2.4              | 2.4              | 2.4              | 2.4              | 2.4              | 2.4              |
| OPERATINGRANGE   |                |                  |                  |                  |                  |                  |                  |
| Cooling Outdoor DB Min-Max                                 | °F (°C)        | -22~130 (-30~55) | -22~130 (-30~55) | -22~130 (-30~55) | -22~130 (-30~55) | -22~130 (-30~55) | -22~130 (-30~55) |
| Heating Outdoor DB Min-Max                                 | °F (°C)        | -22~86 (-30~30)  | -22~86 (-30~30)  | -22~86 (-30~30)  | -22~86 (-30~30)  | -22~86 (-30~30)  | -22~86 (-30~30)  |
| PIPING   |                |                  |                  |                  |                  |                  |                  |
| Total Piping Length  | ft (m)         | 98 (30)          | 164 (50)         | 164 (50)         | 213 (65)         | 213 (65)         | 213 (65)         |
| Piping Lift*   | ft (m)         | 65 (20)          | 82 (25)          | 82 (25)          | 98 (30)          | 98 (30)          | 98 (30)          |
| Pipe Connection Size - Liquid                              | in (mm)        | 3/8 (9.52)       | 3/8 (9.52)       | 3/8 (9.52)       | 3/8 (9.52)       | 3/8 (9.52)       | 3/8 (9.52)       |
| Pipe Connection Size - Suction                             | in (mm)        | 3/4 (19)         | 3/4 (19)         | 3/4 (19)         | 3/4 (19)         | 3/4 (19)         | 7/8 (22)         |
| REFRIGERANT  |                |                  |                  |                  |                  |                  |                  |
| Refrigerant Type   |                | R410A            | R410A            | R410A            | R410A            | R410A            | R410A            |
| Charge   | lbs (kg)       | 5.07 (2.3)       | 6.39 (2.9)       | 8.38 (3.8)       | 10.36 (4.7)      | 10.58 (4.8)      | 10.58 (4.8)      |
| Add'l Refrigerant (between Std<br>& Max<br>Piping Lengths) | Oz/ft<br>(g/m) | 0.69 (65)        | 0.69 (65)        | 0.69 (65)        | 0.69 (65)        | 0.69 (65)        | 0.69 (65)        |
| Metering Device  |                | EEV              | EEV              | EEV              | EEV              | EEV              | EEV              |
| OUTDOOR COIL   |                |                  |                  |                  |                  |                  |                  |
| Face Area  | Sq. Ft.        | 5.9              | 8.16             | 8.16             | 14.08            | 13.53            | 13.29            |
| No. Rows   |                | 2                | 2                | 3                | 1.6              | 2                | 2.6              |
| Fins per inch  |                | 20               | 20               | 20               | 18               | 18               | 20               |
| Circuits   |                | 6                | 4                | 4                | 8                | 8                | 10               |
| COMPRESSOR   |                |                  |                  |                  |                  |                  |                  |
| Туре   |                | Rotary Inverter  |
| Model  |                | KTM240D57UMT     | KTM240D57UMT     | KTF310D43UMT     | EAPQ420D1UMUA    | EAPQ420D1UMUA    | EAPQ440D1UMUA    |
| Oil Type   |                | VG74             | VG74             | VG74             | VG74             | VG74             | VG75             |
| Oil Charge   | Fl.Oz.         | 22.7             | 22.7             | 33.8             | 49.4             | 49.4             | 43.96            |
| Rated Current  | RLA            | 10               | 15               | 16.5             | 32               | 33               | 28               |
| AIRFLOW & SOUND  |                |                  |                  |                  |                  |                  |                  |
| Airflow  | CFM            | 1,279            | 3,000            | 3,000            | 4,500            | 4,412            | 4,500            |
| Sound Pressure   | dB (A)         | 58               | 64               | 62               | 64               | 64               | 64               |
|  |                |                  |                  |                  |                  |                  |                  |

<sup>\*</sup> Condensing unit above or below indoor unit

## Outdoor Unit (High Heat) Vitocal 100-S / DLCURAH Series

| Outdoor Size                  |       | 1.5T - HH  | 2T - HH     | 2.5T - HH   | 3T - HH     | 4T - HH     | 5T - HH     |
|-------------------------------|-------|------------|-------------|-------------|-------------|-------------|-------------|
| M RATINGS                     |       |            |             |             |             |             |             |
| Indoor Model                  |       | 18K        | 24K         | 30K         | 36K         | 48K         | 60K         |
| EnergyStar                    |       | YES        | YES         | NO          | NO          | NO          | NO          |
| Cooling Rated Capacity        | Btu/h | 18,000     | 24,000      | 30,000      | 36,000      | 47,000      | 55,000      |
| Cooling Cap. Range Min-Max    | Btu/h | 6900~21000 | 6400~27000  | 10400~33600 | 12000~47400 | 18000~48000 | 18000~56000 |
| SEER                          |       | 20.0       | 20.0        | 18.0        | 18.0        | 16.0        | 16.4        |
| EER                           |       | 12.5       | 12.5        | 11          | 10.5        | 8.5         | 9           |
| Heating Rated Capacity (47°F) | Btu/h | 19,000     | 24,000      | 33,000      | 41,500      | 50,000      | 59,000      |
| Heating Rated Capacity (17°F) | Btu/h | 13,000     | 18,700      | 19,400      | 24,000      | 33,000      | 33,800      |
| Heating Rated Capacity (5°F)  | Btu/h | 19,000     | 24,000      | 28,500      | 34,500      | 32,000      | 42,000      |
| HeatingCap.RangeMin-Max       | Btu/h | 2800~21000 | 10100~31000 | 12000~37000 | 9000~57200  | 20000~55000 | 20000~68000 |
| HSPF                          |       | 11.0       | 12.0        | 10.5        | 10.5        | 10.0        | 10.5        |
| COP (47°F)                    | W/W   | 3.59       | 3.45        | 3.48        | 3.45        | 3.00        | 3.50        |
| COP (17°F)                    | W/W   | 2.75       | 2.70        | 2.60        | 2.65        | 2.30        | 2.60        |
| COP (5°F)                     | W/W   | 1.90       | 1.80        | 1.95        | 1.80        | 1.88        | 1.96        |
| M1 RATINGS                    |       |            |             |             |             |             |             |
| Cooling Rated Capacity        | Btu/h | 18,000     | 24,000      | 30,000      | 36,000      | 47,000      | 55,000      |
| Cooling Cap. Range Min-Max    | Btu/h | 6900~21000 | 6400~27000  | 10400~33600 | 12000~47400 | 18000~48000 | 18000~56000 |
| SEER2                         |       | 18.0       | 17.4        | 16.2        | 15.8        | 15.6        | 15.0        |
| EER2                          |       | 12.4       | 11.7        | 9.8         | 9.8         | 8.2         | 8.5         |
| Heating Rated Capacity (47°F) | Btu/h | 19,000     | 24,000      | 33,000      | 40,000      | 50,000      | 59,000      |
| Heating Rated Capacity (17°F) | Btu/h | 13,000     | 18,600      | 20,400      | 29,500      | 35,000      | 42,000      |
| Heating Rated Capacity (5°F)  | Btu/h | 16,500     | 22,700      | 24,100      | 34,500      | 46,000      | 50,000      |
| Heating Cap. Range Min-Max    | Btu/h | 2800~21000 | 10100~31000 | 12000~37000 | 9000~57200  | 20000~55000 | 20000~68000 |
| HSPF2                         |       | 9.2        | 9.8         | 8.8         | 9.5         | 9.3         | 9.0         |
| COP (47°F)                    | W/W   | 3.60       | 3.40        | 3.30        | 3.35        | 3.15        | 3.00        |
| COP (17°F)                    | W/W   | 2.50       | 2.40        | 2.30        | 2.40        | 2.30        | 2.60        |
| COP (5°F)                     | W/W   | 2.00       | 1.85        | 1.80        | 1.95        | 1.90        | 1.96        |

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

| SYSTEM                                       |          |                     |                     |                     |                     |                     |                     |
|--|----------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Indoor Size                                  |          | 18K                 | 24K                 | 30K                 | 36K                 | 48K                 | 60K                 |
| Indoor Model                                 |          | DLFUAAH18XAK        | DLFUAAH24XAK        | DLFUAAH30XAK        | DLFUAAH36XAK        | DLFUAAH48XAK        | DLFUAAH60XAK        |
| 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        |
| MCA  | A.       | 2.5                 | 4                   | 4.5                 | 5                   | 7.5                 | 9                   |
| Recommended Fuse Size                        | A.       | 5                   | 5                   | 5                   | 10                  | 10                  | 10                  |
| MOPA - Fuse Rating                           | Α.       | 15                  | 15                  | 15                  | 15                  | 15                  | 15                  |
| OPERATING RANGE                              |          |                     |                     |                     |                     |                     |                     |
| Cooling Indoor DB Min-Max                    | °F (°C)  | 60~90 (16~32)       | 60~90 (16~32)       | 60~90 (16~32)       | 60~90 (16~32)       | 60~90 (16~32)       | 60~90 (16~32)       |
| Heating Indoor DB Min-Max                    | °F (°C)  | 32~86 (0~30)        | 32~86 (0~30)        | 32~86 (0~30)        | 32~86 (0~30)        | 32~86 (0~30)        | 32~86 (0~30)        |
| PIPING                                       |          |                     |                     |                     |                     |                     |                     |
| Pipe Connection Size - Liquid                | in (mm)  | 3/8 (9.52)          | 3/8 (9.52)          | 3/8 (9.52)          | 3/8 (9.52)          | 3/8 (9.52)          | 3/8 (9.52)          |
| Pipe Connection Size - Suction               | in (mm)  | 3/4 (19)            | 3/4 (19)            | 3/4 (19)            | 3/4 (19)            | 3/4 (19)            | 7/8 (22)            |
| REFRIGERANt                                  |          |                     |                     |                     |                     |                     |                     |
| Refrigerant Type                             |          | R410A               | R410A               | R410A               | R410A               | R410A               | R410A               |
| Metering Device                              |          | EEV                 | EEV                 | EEV                 | EEV                 | EEV                 | EEV                 |
| INDOOR COIL                                  |          |                     |                     |                     |                     |                     |                     |
| Face Area                                    | Sq. Ft.  | 3                   | 3                   | 3.8                 | 3.8                 | 3.8                 | 4.88                |
| No. Rows                                     |          | 3                   | 3                   | 4                   | 4                   | 4                   | 5                   |
| Fins Per Inch                                |          | 20                  | 20                  | 20                  | 20                  | 20                  | 20                  |
| Circuits                                     |          | 6                   | 6                   | 10                  | 10                  | 10                  | 14                  |
| AIRFLOW & SOUND                              |          |                     |                     |                     |                     |                     |                     |
| Number of Fan Speeds<br>(low/med/high/turbo) |          | 4                   | 4                   | 4                   | 4                   | 4                   | 4                   |
| Airflow<br>(lowest to highest)               | CFM      | 488/529/576/618     | 629/694/759/824     | 712/806/894/1088    | 865/971/1082/1188   | 906/1094/1282/1471  | 1135/1359/1582/1806 |
| Cooling Sound Pressure<br>(low to high)      | dB (A)   | 30.5/31.4/33.4/35.2 | 33.6/36.6/38.7/40.4 | 37.7/41.3/43.0/45.6 | 40.2/43.2/45.7/48.0 | 42.5/47.1/50.3/54.0 | 45.0/49.1/52.1/55.3 |
| Heating Sound Pressure<br>(low to high)      | dB (A)   | 29.8/30.7/34.0/35.3 | 32.4/36.9/39.6/40.6 | 29.5/36.9/43.0/43.2 | 35.6/40.7/46.8/46.7 | 43.7/46.8/50.2/52.7 | 43.4/48.0/53.0/60.5 |
| Max Static Pressure                          | In. W.G. | 0.8                 | 0.8                 | 0.8                 | 0.8                 | 0.8                 | 0.8                 |
| Field Drain Pipe Size O.D.                   | in (mm)  | 3/4 (19.1)          | 3/4 (19.1)          | 3/4 (19.1)          | 3/4 (19.1)          | 3/4 (19.1)          | 3/4 (19.1)          |
|  |          |                     |                     |                     |                     |                     |                     |



Viessmann Manufacturing Company ULC Waterloo, ON Canada (800) 387-7373

Viessmann Sales Office Langley, BC Canada (877) 853-3288 viessmann.ca A Carrier Company