

INVESTING IN QUALITY, RELIABILITY & PERFORMANCE



ISO 9001 QUALITY

WORLD LEADING DESIGN AND TECHNOLOGY

Equipped with the latest air-conditioning test rooms and manufacturing technology, we produce over 50,000 fan coil units each year, all conforming to the highest international standards of quality and safety.

Every product is manufactured to meet the stringent requirements of the internationally recognized ISO 9001 standard for quality assurance in design, development and production.



ETL SAFETY STANDARDS

THE HIGHEST STANDARDS OF MANUFACTURING

In order to guarantee the very highest standards and performance, we manage every stage in the manufacturing of our products. Throughout the production process we maintain strict control, starting with our extensive resources in research and development through to the design and manufacturing of almost every individual component, from molded plastics to unit and controller assembly.

All products conform to UL standard for Safety for Heating and Cooling Equipment UL1995 4th Edition, October 14, 2011.

All products conform to CSA standard for Safety for Heating and Cooling Equipment CSA C22.2 No.236-11, 4th Edition, October 14 2011.



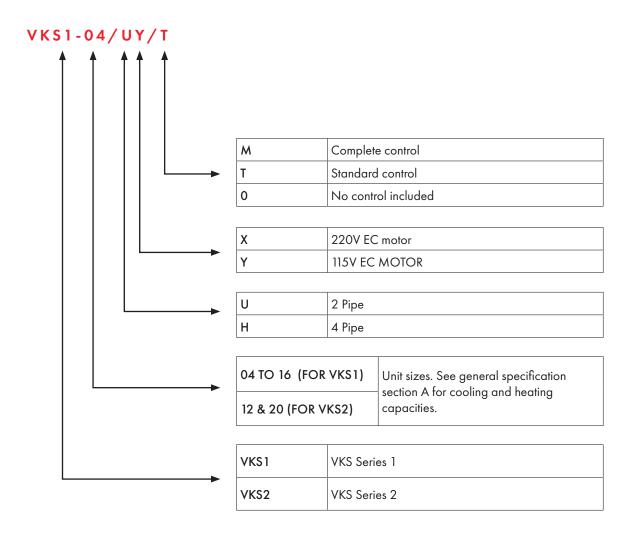
WEEE MARK

THE HIGHEST STANDARDS OF MANUFACTURING

Our highly trained staff and strict quality control methods enable us to produce products with an exceptional reputation for reliability and efficiency, maintained over many years. As well as full CE certification and ISO 9001, several products ranges have UL/ETL safety approval in the USA and Canada, Eurovent performance and sound certification as well as ROHS compliance for Europe, giving you the confidence of knowing our company is the right choice when selecting fan coil units.

All products conform to the "WEEE" directive to guarantee correct standards of environmental solutions.

MODEL CODE NOMENCLATURE





TECHNICAL DATA

GENERAL DESCRIPTION

The Ceiling cassette units make each served area an independent controlled temperature zone providing effective decoupled heating and cooling.

CONSTRUCTION

Cases are constructed of galvanized steel with integrated fan mounting rails for added strength. Fire-resistant insulation is fitted internally to provide both thermal and acoustic insulation. The RAL9010 fascia is constructed of high-impact polystyrene.

COILS

Constructed with seamless copper tubes and headers. The tubes are mechanically expanded into corrugated aluminum fin material for a permanent primary to secondary surface bond. Coils are tested at 362 psi and recommended for operating at 232 psi. Coils include manual air vent and water purge valve.

FAN

The backward-curved centrifugal fan is statically and dynamically balanced for quiet operation. Fan impellers are made from fire-retardant plastic for lightweight and corrosion-resistant operation.

EC MOTOR

The unit uses an EC motor, including driven controls PCB, a constant torque, permanent magnet, brushless DC motor with preliminary 3-speed setting that allow for precise air balancing.

FILTRATION

Reusable wire framed filters are fitted and may be vacuum cleaned.

CONDENSATE PUMP

A condensate pump is fitted to carry water out of the unit. The pump is fixed to a mounting bracket. The pump can be withdrawn from the bottom after removing the front panel. A float switch is fitted to stop the cooling action, should the pump become blocked or fail.

LOUVER

Louver blades are manufactured from ABS to prevent condensation from forming, automatic adjustment and driven by stepping motors on unit.

FRESH AIR

The fresh air system for cassette units allow up to 15% of airflow (maximum air flow per connection is 60 CFM) as fresh air intake (per connection). A maximum of two fresh air connections per unit are allowed.

COMPLETE CONTROL (M-TYPE)

The PCB (printed circuit board) Modbus microprocessor controls functionality of the indoor fan motor, water valves (ON/OFF) and electric heater (optional), to maintain room conditions at a user-defined set point. Temperature settings, fan speeds and other control functions can be changed by either infrared handset or wired wall pad controller.

STANDARD CONTROL (T-TYPE)

The unit allows operation with a 24 V AC thermostat. When any motor speed terminals are powered ON or modulating signal is more than 2.0 V DC, the stepping motor activates and opens the louver to its maximum position. When all motor speed terminals are powered OFF or modulating valve is less than 2.0 V DC, the stepping motor will close the louver. The condensate pump will run continuously, as long as coil temperature is less than 59°F. Alarm notification and zone control function are available. 40 V AC 24 V AC transformer is equipped with unit, which is used to supply 24 V AC power to thermostat and modulating valve.



2-PIPE SYSTEMS

PRODUCT RANGE: VKS HYDRONIC CASSETTE WITH EC MOTOR

| | | VKS [SERIES] - [SIZE] | | | VKS1-04R | VKS1-08 | VKS1-08R | VKS1-09 |
|------------------|---|-------------------------------------|-----------|---------|---|------------------------|-----------------------|-------------------------|
| | 7 | CONFIGURA | ATION | | | 2-F | IPE | |
| | ē | NUMBER OF FAN | N BLOWERS | | | SINGLE | | TWIN |
| ⊨ | IRA] | POWER SUPPLY | | V/PH/HZ | | | 1/60 1/60 | |
| FIND | CONFIGURATION | OPERATION CON | | · · · | ~ M: Complete Control ~ T: Standard control w ~ 0: No control box pre | ality | | |
| | | | Н | | 338 | 476 476 | | 600 |
| | AIR | AIR FLOW | М | CFM | 224 | 306 | 306 | 318 |
| | | | L | | 118 | 118 | 118 | 212 |
| | | | Н | | 10732 | 15342 | 16563 | 20314 |
| | (D | COOLING CAPACITY | М | | <i>7</i> 885 | 10457 | 11530 | 12029 |
| | ž | | L | | 4579 | 4912 | 5141 | 8963 |
| | COOLING | | н | BTU/Hr | 7479 | 10239 | 12734 | 13662 |
| | ŏ | SENSIBLE COOLING CAPACITY | М | | 5391 | 6837 | 8685 | 7847 |
| | | CAFACITI | L | | 3094 | 3197 | 3841 | 5732 |
| | | | н | | 16684 | 23849 | 25748 | 31578 |
| | | HEATING CAPACITY | М | | 12257 | 16255 | 17923 | 18700 |
| | Ŋ | | L | | 7118 | 7636 | 7992 | 13934 |
| | HEATING | MAX. ELECTRIC HEAT CAPACITY@115V | TER | BTU/Hr | 1700 | 34 | 00 | 5100 |
| | | MAX. ELECTRIC HEAT CAPACITY@220V | | | 3400 | 68 | 00 | 10200 |
| | | SOUND PRESSURE LE | | | 43/39/27 | 50/40/26 | 50/40/26 | 45/42/30 |
| PERFORMANCE DATA | SOUND | SOUND POWER LEVEL | | dB(A) | 52/48/36 | 59/49/35 | 59/49/35 | 54/51/39 |
| Ä | | | Н | | 21 | 47 | 47 | 38 |
| MAI | | POWER INPUT IN | M | 1 1 | 14.8 | 18 | 18 | 27 |
| OR/ | | COOLING MODE | L | | 11 | 11 | 11 | 18 |
| ERF | NAL SAL | | Н | W | 16 | 42 | 42 | 33 |
| 4 | TRIC | POWER INPUT IN HEATING MODE | М | | 9.8 | 13 | 13 | 22 |
| | ELECTRICAL | MODE | L | | 6 | 6 | 6 | 13 |
| | | FAN MOTOR RUNNING CURRENT @ 115V | Н | A | 0.37 | 0.82 | 0.82 | 0.66 |
| | | FAN MOTOR RUNNING CURRENT @ 220V | Н | | 0.19 | 0.43 | 0.43 | 0.35 |
| | | COOLING WATER | Н | | 2.1 | 3 | 3.3 | 4 |
| | | COOLING WATER FLOW RATE | М | GPM | 1.6 | 2.1 | 2.3 | 2.4 |
| | | | L | | 0.9 | 1 | 1 | 1.8 |
| | | COOLING PRESSURE | H | | 5 | 10.6 | 14.4 | 10.8 |
| | <u>0</u> | DROP | M | FT/Head | 2.9 | 5.5 | 7.8 | 4.4 |
| | HYDRAULIC | | L H | | 2.1 | 1.5 | 3.3 | 2.7 |
| | DR. | HEATING WATER FLOW | M | GPM | 1.6 | 2.1 | 2.3 | 2.4 |
| | £ | RATE | L | OI M | 0.9 | 1 | 1 | 1.8 |
| | | | Н | | 4.5 | 9.5 | 13 | 9.7 |
| | | HEATING PRESSURE | M | FT/Head | 2.7 | 5 | 7 | 4 |
| | | DROP | L | ., | 1.1 | 1.4 | 1.8 | 2.4 |
| | | WATER CONTENT | | GAL | 0.33 | 0.41 | 0.36 | 0.59 |
| | | WATER | Тур | | | Socket (Thread | ed Female NPT) | • |
| ٥ | | CONNECTIONS | IN OUT | | | 3, | /4 | |
| Z Z Z | PACKING DATA | CONDENSATE DRAIN CONNECTION | | INCH | | | nside diameter: 13/16 | |
| | <u>ဝ</u> ို | 55.412611511 | L | | | 22-5/8 | | 44-7/8 |
| RUC | \ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u> | DIMENSIONS | W | | | 22-5/8 | | 22-13/16 |
| TSN | PAC | Ī | Н | INCH | 9-13/16 | 11-7 | 7/16 | 9-13/16 |
| 0) | | PANEL DIMENSION | s | | | 26-3/4 x 26-3/4 x 1-1/ | | 26-3/4 x |
| | | NET WEIGHT | | LBS | 61.7 | 1 | 72.8 | 48-13/16 x 1-1/8 110 |
| | | INEI WEIGHI | | LDS | 01./ | 66.1 | / 2.0 | IIU |

COOLING MODE (2-PIPE)

- Return air temperature: $80^{\circ}F$ DB/ $67^{\circ}F$ WB.
- Inlet/ outlet water temperature: $45^{\circ}F/55^{\circ}F$.

HEATING MODE (2-PIPE)

- Return air temperature: 70°F.
- Inlet water temperature: 140°F.

(ALL DIMENSIONS ARE APPROXIMATE WITHIN 1/16 OF AN INCH OF THOSE INDICATED)



The manufacturer reserves the right to make changes to the design, colour and specification of the products shown. Illustrations may include optional accessories

PRODUCT RANGE: VKS HYDRONIC CASSETTE WITH EC MOTOR

| | | VKS [SERIES] - [SIZE] | | | VKS1-16 | VKS2-12 | VKS2-20 |
|------------------|---|-------------------------------------|-----------|-----------|--|--|---|
| 7 | Z O | CONFIGURATIO | N | | | 2-PIPE | |
| Ę | J - | NUMBER OF FAN BLO | OWERS | | TWIN | | SINGLE |
| <u> </u> | S 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | POWER SUPPLY | | V/PH/HZ | | 115/1/60 220/1/60 | |
| | | OPERATION CONTRO | DL - VKS | | ~ M: Complete Control ~ T: Standard control wi ~ 0: No control box pre | with integrated group cor th drain pump, louver and | ntrol functionality d zone control functionality |
| | | | Н | | 853 | 765 | 1300 |
| | AIR | AIR FLOW | М | CFM | 535 | 482 | 812 |
| | ٩ | 7 7 25 77 | L | C. | 212 | 212 | 482 |
| | | | Н | | 28497 | 23358 | 32423 |
| | | COOLING CAPACITY | М | | 19515 | 16170 | 26552 |
| | N N | | L | | 8841 | 8295 | 18233 |
| COOLING | | SENSIBLE COOLING | н | BTU/Hr | 19128 | 15899 | 23166 |
| | | CAPACITY | М | | 12809 | 10746 | 18776 |
| | | | L | | 5761 | 5445 | 12609 |
| | | | Н | | 44300 | 36311 | 50403 |
| | ტ | HEATING CAPACITY | М | | 30337 | 25137 | 41276 |
| | Ž | HEATING CALACITY | L | BTU/Hr | 13744 | 12895 | 28343 |
| | HEATING | MAX. ELECTRIC HEATER CAPACIT | | | | 00 | 6800 |
| | _ | MAX. ELECTRIC HEATER CAPACITY | | | | 200 | 13600 |
| | ٥ | SOUND PRESSURE LEVEL | . 0220 (| | 54/42/30 | 56/45/32 | 58/50/37 |
| PERFORMANCE DATA | SOUND | SOUND POWER LEVEL | | dB(A) | 63/51/39 | 65/54/41 | 67/59/46 |
| | | | Н | | 89 | 82 | 224 |
| | | POWER INPUT IN COOLING MODE | М | | 34 | 37 | 79 |
| | | | L | | 18 | 16 | 27 |
| ORA | ELECTRICAL | | Н | W | 84 | 77 | 219 |
| ER F(| TR | POWER INPUT IN HEARING MODE | М | | 29 | 32 | 74 |
| ≖ | HE | | L | | 13 | 11 | 22 |
| | | FAN MOTOR RUNNING CURRENT @ 115V | Н | | 1.55 | 1.43 | 3.90 |
| | | FAN MOTOR RUNNING CURRENT @ 220V | Н | Α | 0.81 | 0.75 | 2.04 |
| | | | Н | | 5.6 | 4.6 | 6.4 |
| | | COOLING WATER FLOW RATE | М | GPM | 3.9 | 3.2 | 5.2 |
| | | TEOW RATE | L | | 1.8 | 1.6 | 3.6 |
| | | COOLING DRESSURE | Н | | 12.8 | 11.3 | 8.8 |
| | O | COOLING PRESSURE DROP | М | FT/Head | 6.7 | 6 | 6.3 |
| | NTI | 2 | L | | 1.7 | 1.9 | 3.3 |
| | HYDRAULIC | | Н | | 5.6 | 4.6 | 6.4 |
| | HYI | HEATING WATER FLOW RATE | М | GPM | 3.9 | 3.2 | 5.2 |
| | | | L | | 1.8 | 1.6 | 3.6 |
| | | HEATING PRESSURE | H | FT /1: ' | 11.5 | 10.1 | 7.9 |
| | | DROP | М | FT/Head | 6 | 5.4 1.7 | 5.6 |
| | | WATER CONTENT | L | GAL | 1.6 0.73 | 0.47 | 0.64 |
| | | | Тур | | 0./3 | Socket (Threaded Fem | |
| ۵ | | WATER CONNECTIONS | IN OUT | | | 3/4 | w. v. 11 11 |
| N AN | PACKING DATA | CONDENSATE DRAINAGE CONNECTION | | INCH | Out | side diameter: 1 Inside di | ameter: 13/16 |
| Ĕ | ပ ို | | L | | 44-7/8 | 28-3/4 | 32-11/16 |
| TRU | N C | DIMENSIONS | W | IN ION | 22-13/16 | 28-3/4 | 32-11/16 |
| NS | PA | | Н | INCH | 11-7/16 | 10-1/4 | 11-7/16 |
| 8 | | PANEL DIMENSIONS | | ,,,, | 26-3/4 x 48-13/16 x 1-1/8 | 32-11/16 x 32-11/16 x 1-1/8 | 38-9/16 x 38-9/16 x 1-1/8 |
| | | NET WEIGHT | | LBS | 115 | 79.4 | 110 |

COOLING MODE (2-PIPE):

- Return air temperature: 80°F DB/ 67°F WB.

- Inlet/ outlet water temperature: 45°F/55°F.

HEATING MODE (2-PIPE):

- Return air temperature: 70°F.

- Inlet water temperature: 140°F.

(ALL DIMENSIONS ARE APPROXIMATE WITHIN 1/16 OF AN INCH OF THOSE INDICATED)



4-PIPE SYSTEMS

PRODUCT RANGE: VKS HYDRONIC CASSETTE WITH EC MOTOR

| | | VKS [SERIES] - [SIZE] | | | VKS1-08 | VKS1-09 | VK\$1-16 | VKS2-12 | VKS2-20 |
|------------------|---------------|----------------------------------|-----------------------|---------|----------------------------|--|-----------------------|--------------------------------|------------------------------|
| | 7 | CONFIGUR | RATION | | | | 4-PIPE | , | |
| | <u>6</u> | NUMBER OF FA | N BLOWERS | ; | SINGLE | TW | /IN | SIN | IGLE |
| E | ₽ EA | POWER SUPPLY | , | V/PH/HZ | | | 115/1/60 | | |
| = | CONFIGURATION | OPERATION CO | | ' ' | | ol with integrated group with drain pump, louve re-installed | | ctionality | |
| | | | Н | | 476 | 600 | 853 | 765 | 1235 |
| | AIR | AIR FLOW | М | CFM | 306 | 318 | 535 | 482 | 812 |
| | | | L | | 118 | 212 | 212 | 212 | 482 |
| | | | Н | | 12852 | 13298 | 16078 | 19609 | 22318 |
| | ପ୍ର | COOLING CAPACITY | М | | 9129 | 8200 | 11783 | 13823 | 17245 |
| | OLI N | | L | BTU/Hr | 4305 | 6000 | 5740 | 7165 | 13585 |
| | COOLING | SENSIBLE COOLING | Н | | 8794 | 9407 | 11280 | 13408 | 15307 |
| | | CAPACITY | M | | 6129 | 5621 | 8140 | 9265 | 11660 |
| | | | L | | 2873 | 4102 | 3946 | 4790 | 9018 |
| | | HEATING CAPACITY | H M | | 14857 | 20246 12451 | 25172 17819 | 15851 | 31509 22839 |
| | ΰ | TILATINO CATACITI | L | | 4878 | 9148 | 8530 | 5789 | 15118 |
| | HEATING | MAX. ELECTRIC HEA | ATER | BTU/Hr | 3400 | 7.10 | 5100 | 0,0, | 6800 |
| | | MAX. ELECTRIC HEA | ATER | | 6800 | | 10200 | | 13600 |
| | ۵ | SOUND PRESSURE LI | | | 50/40/26 | 45/42/30 | 54/42/30 | 56/45/32 | 58/50/37 |
| ∢ | SOUND | SOUND POWER LEVEL | | dB(A) | 59/49/35 | 54/51/39 | 63/51/39 | 65/54/41 | 67/59/46 |
| PERFORMANCE DATA | | DOWER INDUITING | Н | | 47 | 38 | 89 | 82 | 224 |
| CEL | | POWER INPUT IN COOLING MODE | М | w | 18 | 27 | 34 | 37 | 79 |
| NA | - | | L | | 11 | 18 | 18 | 16 | 27 |
| ORM | ICA | POWER INPUT IN | Н | | 42 | 33 | 84 | 77 | 219 |
| IRFC | ELECTRICAL | HEATING MODE | М | | 13 | 22 | 29 | 32 | 74 |
| 2 | ä | FAN MOTOR RUNNING | L | | 6 | 13 | 13 | 11 | 22 |
| | | CURRENT @ 115V FAN MOTOR RUNNING | Н | A | 0.82 | 0.66 | 1.55 | 1.43 | 3.90 |
| | | CURRENT @ 220V | Н | | 0.43 | 0.35 | 0.81 | 0.75 | 2.04 |
| | | COOLING WATER | Н | | 2.5 | 2.6 | 3.2 | 3.9 | 4.4 |
| | | FLOW RATE | | GPM | 1.8 | 1.6 | 2.3 | 2.7 | 3.4 |
| | | | L H | | 0.9 5.6 | 1.2 | 1.1 4.6 | 2.3 | 2.7 6.9 |
| | | COOLING PRESSURE | M | FT/Head | 3.2 | 6.8 | 2.7 | 1.3 | 4.5 |
| | | DROP | L | | 0.9 | 4 | 0.8 | 0.4 | 3 |
| | HYDRAULIC | | Н | | 0.7 | 1 | 1.3 | 0.8 | 1.6 |
| | RAL | HEATING WATER FLOW RATE | М | GPM | 0.5 | 0.6 | 0.9 | 0.6 | 1.1 |
| | Η Δ | NAI E | L | | 0.2 | 0.5 | 0.4 | 0.3 | 0.8 |
| | | HEATING PRESSURE | Н | 1 | 0.4 | 0.4 | 0.6 | 0.4 | 0.9 |
| | | DROP | M | FT/Head | 0.2 | 0.2 | 0.4 | 0.2 | 0.5 |
| | | | CHILLED | | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 |
| | | WATER CONTENT | WATER HOT WATER | GAL | 0.13 | 0.23 | 0.23 | 0.11 | 0.2 |
| | | WATER | | /pe | | Soc | ket (Threaded Female | NPT) | • |
| | ۵ | CONNECTIONS | In | | | | 3/4 | | |
| 7 | PACKING DATA | CONDENSATE DRAIN CONNECTION | Out NAGE | INCH | | Outside di | ameter: 1 Inside diam | eter: 13/16 | |
| | 5 | 3311112311011 | L | | 22-5/8 | 44- | 7/8 | 28-3/4 | 32-11/16 |
| | Z X | DIMENSIONS | W | | 22-5/8 | | 3/16 | 28-3/4 | 32-11/16 |
| 7 | PAC | | Н | INCH | 11-7/16 | 9-13/16 | 11-7/16 | 10-1/4 | 11-7/16 |
| 5 | 3 | PANEL DIMENSION | NS | | 26-3/4 x 26-3/4 x 1-1/8 | 26-3/4 x x 1- | 48-13/16 1/8 | 32-11/16 x 32-11/16 x 1-1/8 | 38-9/16 x 38-9/16 x 1-1/8 |
| | | NET WEIGHT | | LBS | 66.1 | 110 | 115 | 79.4 | 110 |

COOLING MODE (4-PIPE)

- Return air temperature: 80°F DB/ 67°F WB.

- Inlet/ outlet water temperature: 45F/55°F.

HEATING MODE (4-PIPE)

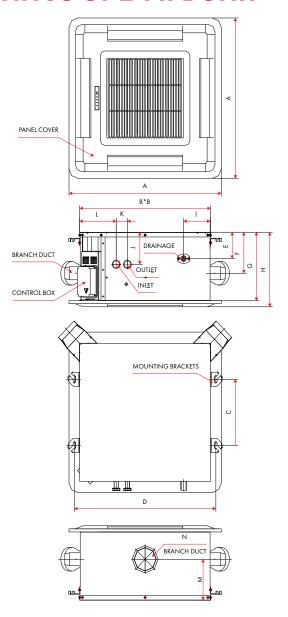
- Return air temperature: 70°F.

- Inlet/ outlet water temperature: 180°F/140°F.

(ALL DIMENSIONS ARE APPROXIMATE WITHIN 1/16 OF AN INCH OF THOSE INDICATED)



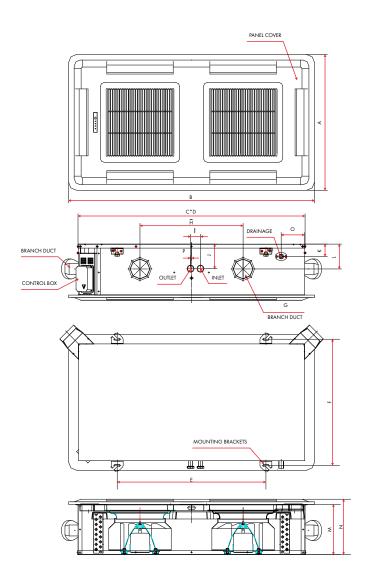
DIMENSIONAL DRAWINGS OF 2-PIPE UNIT



| MODEL | Α | В | С | D | Е | F | G |
|-------------|----------|----------|---------|----------|--------|-------|---------|
| VKS1-04R | 26-3/4 | 22-15/16 | 11 | 24-11/16 | 2-7/16 | 4-7/8 | 10-1/16 |
| VKS1-08.08R | 26-3/4 | 22-15/16 | 11 | 24-11/16 | 4-7/16 | 6-7/8 | 11-7/16 |
| VKS2-12 | 32-11/16 | 28-3/4 | 13-9/16 | 30-1/2 | 3-5/16 | 5-7/8 | 10-1/4 |
| VKS2-20 | 38-9/16 | 32-11/16 | 19-3/16 | 34-7/16 | 4-3/16 | 7 | 11-7/16 |

| MODEL | Н | 1 | J | K | L | М | N |
|-------------|---------|---------|--------|---|-------|--------|---------|
| VKS1-04R | 11-1/8 | 4-5/8 | 4-5/16 | 2 | 6-3/8 | 4-7/8 | 3-15/16 |
| VKS1-08.08R | 12-1/2 | 4-5/8 | 5-3/8 | 2 | 6-3/8 | 6-7/8 | 3-15/16 |
| VKS2-12 | 11-5/16 | 4-15/16 | 6-7/16 | 2 | 6-3/8 | 5-3/16 | 3-15/16 |
| VKS2-20 | 12-1/2 | 4-5/8 | 5-3/4 | 2 | 6-1/8 | 5-3/4 | 3-15/16 |



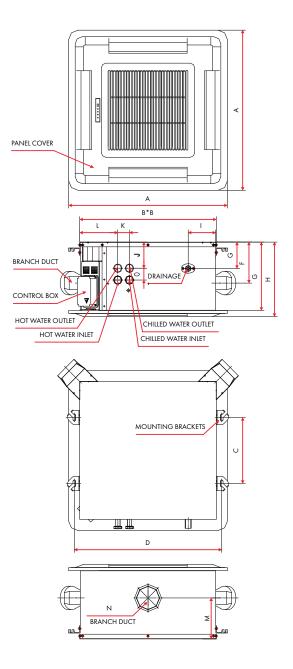


| MODEL | А | В | С | D | Е | F | G | Н |
|---------|--------|----------|---------|----|--------|----------|---------|--------|
| VKS1-09 | 26-3/4 | 48-13/16 | 45-1/16 | 23 | 29-1/2 | 24-13/16 | 3-15/16 | 20-1/2 |
| VKS1-16 | 26-3/4 | 48-13/16 | 45-1/16 | 23 | 29-1/2 | 24-13/16 | 3-15/16 | 20-1/2 |

| MODEL | I | J | K | L | М | N | 0 |
|---------|---|---------|--------|-------|---------|--------|-------|
| VKS1-09 | 2 | 4-13/16 | 2-7/16 | 4-7/8 | 10-1/16 | 11-1/8 | 4-5/8 |
| VKS1-16 | 2 | 5-5/16 | 4-7/16 | 6-7/8 | 11-7/16 | 12-1/2 | 4-5/8 |



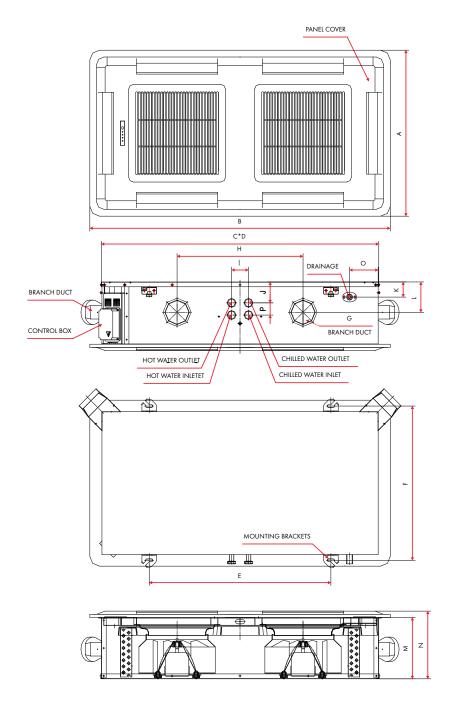
DIMENSIONAL DRAWINGS OF 4-PIPE UNIT



| MODEL | A | В | С | D | Е | F | G | Н |
|---------|----------|----------|---------|----------|--------|-------|---------|---------|
| VKS1-08 | 26-3/4 | 22-15/16 | 11 | 24-11/16 | 4-7/16 | 6-7/8 | 11-7/16 | 12-1/2 |
| VKS2-12 | 32-11/16 | 28-3/4 | 13-9/16 | 30-1/2 | 3-5/16 | 5-7/8 | 10-1/4 | 11-5/16 |
| VKS2-20 | 38-9/16 | 32-11/16 | 19-3/16 | 34-7/16 | 4-3/16 | 7 | 11-7/16 | 12-1/2 |

| MODEL | | J | K | L | М | N | 0 |
|---------|---------|--------|---|-------|--------|---------|---|
| VKS1-08 | 4-5/8 | 4-5/16 | 2 | 6-3/8 | 6-7/8 | 3-15/16 | 2 |
| VKS2-12 | 4-15/16 | 4-7/16 | 2 | 6-3/8 | 5-3/16 | 3-15/16 | 2 |
| VKS2-20 | 4-5/8 | 4-5/16 | 2 | 6-1/8 | 5-3/4 | 3-15/16 | 2 |





| MODEL | A | В | С | D | Е | F | G | Н |
|---------|--------|----------|---------|----|--------|----------|---------|--------|
| VKS1-09 | 26-3/4 | 48-13/16 | 45-1/16 | 23 | 29-1/2 | 24-13/16 | 3-15/16 | 20-1/2 |
| VKS1-16 | 26-3/4 | 48-13/16 | 45-1/16 | 23 | 29-1/2 | 24-13/16 | 3-15/16 | 20-1/2 |

| MODEL | I | J | K | L | М | N | 0 | Р |
|---------|-------|--------|--------|-------|---------|--------|-------|---|
| VKS1-09 | 2-3/4 | 3-3/8 | 2-7/16 | 4-7/8 | 10-1/16 | 11-1/8 | 4-5/8 | 2 |
| VKS1-16 | 2-3/4 | 4-5/16 | 4-7/16 | 6-7/8 | 11-7/16 | 12-1/2 | 4-5/8 | 2 |



OPTIONAL ACCESSORIES

UNIT ACCESSORIES

- Electrical Heaters
 - With 2-stage safety cut out and can be configured as booster or primary heaters. Can be easily installed on site or in stock via plug and play wiring and brackets. Onboard electric heater controller can be configured using easily set dip switches
- Valves & Actuator
 - 2-way or 3-way valve with motorized 24 V on/off or modulating actuator integrated with SS hose and copper piping connection kits
- Plastic Fresh Air Flanges
 - Cassette comes with punch-out fresh air connection holes. ABS Plastic Flanges use only 2 screws for fixture to unit
- Plastic Brand Duct Flanges
 - For delivery of treated air to adjacent spaces with 2 connections per single fan model

CONTROL ACCESSORIES

- Complete Control Board
 - Infra-Red Handset Controller & Wall Holder (currently not available in North America)
 - With Global Control functionality for Main and Secondary unit groups.
- Unlimited Wired Wall Pad Controller (currently not available in North America)
 - Features: 7 day ON/OFF timer program. Addressable Main and Secondary units allowing control of up to 32 Secondary units via a single Main Unit with set or check of each unit parameters individually. Error display with addressable error diagnostic (Main unit Wall Pad displays Secondary unit address and error type). One Touch Global Control (Global Control Main Unit Wall Pad controls all units in the group). Complete with Onboard Room Air Temperature Sensor.
- DIP Switch Configuration Service
 - Pre-set DIP switches for master/slave option, 2/4-pipe, Preheat temperature, Operation mode settings.
- Standard Control Board
 - Universal EC Thermostat
 - Main functions: 2-pipe, 4-pipe, 2-pipe+floor heating mode, floor heating, and cooling. AC/EC motor 3-speed control. Motorized valve control. 0-10 V DC Modulating valve. EC motor RPM control. Low temperature protection. Remote ON/OFF function. Power supply: 24 V AC or V DC. Working environment: 32-122, 5-95%RH (no condensate). Self-power consumption: <2W. Protection class: IP30.
- STCD Series Thermostats





The data presented in this document is correct at time of publication. Illustrations may include optional accessories. Due to continuous research and development, and the desire to improve the quality of our products, MDL Solutions reserves the right to make changes regarding design and specifications without prior notice

MDL SOLUTIONS

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