

# TCL AC

## APEX XS SERIES SIDE DISCHARGE HP W/AUTO VOLTAGE AHU



### APEX XS & AUTO VOLTAGE AHU



#### MULTI-POSITION AIR HANDLER UNIT

Our multi-position air handler offers flexible installation with convertible vertical up-flow, downflow, or horizontal airflow configurations, allowing it to adapt to a wide variety of residential and commercial layouts.



#### 115V/230V VOLTAGE AUTO SELECT

Designed for installation flexibility, the air handler automatically detects and adapts to either 115V or 230V power, eliminating manual settings and ensuring quick, hassle-free commissioning.



#### SMART CONTROL 24V THERMOSTAT

Compatible with all 3rd Party 24v Thermostats. RS485 Wired-Controller- To activate smart functions such as dehumidification, energy saving, sleep mode, etc.



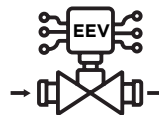
#### DC INVERTER TECHNOLOGY

Equipped with inverter technology, which adjusts the compressor speed based on room temperature, providing consistent cooling while consuming less energy.



#### COLD CLIMATE READY

Designed to thrive in the harshest winter environments, this system provides continuous heating performance down to -22°F (-30°C). Advanced inverter-driven technology delivers dependable warmth, exceptional efficiency, and year-round comfort—even during extreme cold-weather conditions.



#### ELECTRONIC EXPANSION VALVE (EEV)

Provides precise refrigerant flow control for enhanced comfort, higher energy efficiency, faster temperature response, and reliable performance across a wide range of operating conditions.



# TCL

With a lineup of award-winning televisions, audio products, mobile devices, and HVAC products, TCL delivers meaningful experiences through thoughtful design and the latest technology, helping you enjoy more of the things you love.

| MODEL NUMBER - IDU               |                       |                |                                                                    | H24APH20UDE  |                            | H36APH20UDE  |                             | H48APH20UDE |                              | H60APH20UDE  |                              |        |  |
|----------------------------------|-----------------------|----------------|--------------------------------------------------------------------|--------------|----------------------------|--------------|-----------------------------|-------------|------------------------------|--------------|------------------------------|--------|--|
| MODEL NUMBER - ODU               |                       |                |                                                                    | H24SDH20XQC* |                            | H36SDH20XQC* |                             | H48SDH20XQC |                              | H60SDH20XQC* |                              |        |  |
| SYSTEM TYPE                      |                       |                |                                                                    | Heat Pump    |                            |              |                             |             |                              |              |                              |        |  |
| SYSTEM PERFORMANCE               |                       |                |                                                                    |              |                            |              |                             |             |                              |              |                              |        |  |
| AHRI Certificate                 |                       |                |                                                                    | 218453815    |                            | 218453817    |                             | 218453819   |                              | 218453821    |                              |        |  |
| Cooling at 95°C (35°C)           | Capacity (Min - Max)  |                | BTU/h                                                              |              | 24,000 (7,000 - 28,400)    |              | 36,000 (15,000 - 43,600)    |             | 48,000 (18,000 - 54,000)     |              | 54,000 (22,000 - 60,000)     |        |  |
|                                  | Rated Current         |                | A                                                                  |              | 9.2                        |              | 15                          |             | 20                           |              | 24.7                         |        |  |
|                                  | SEER2 / EER2          |                |                                                                    |              | 19 / 12                    |              | 18 / 11                     |             | 18 / 11                      |              | 17 / 10                      |        |  |
| Heating at 47°F (8.3°C)          | Rated Capacity        |                | BTU/h                                                              |              | 24,000 (8,100 - 32,000)    |              | 36,000 (14,500 - 46,000)    |             | 48,000 (20,500 - 56,600)     |              | 54,000 (22,400 - 64,000)     |        |  |
|                                  | Rated Current         |                | A                                                                  |              | 8.5                        |              | 13.4                        |             | 17.9                         |              | 21.3                         |        |  |
|                                  | HSPF2 (IV) / COP      |                |                                                                    |              | 10 / 3.8                   |              | 9.5 / 3.6                   |             | 9.5 / 3.6                    |              | 9.5 / 3.4                    |        |  |
| Heating at 17°F (-8.3°C)         |                       | Rated Capacity |                                                                    | BTU/h        |                            | 24,000       |                             | 36,000      |                              | 48,000       |                              | 51,000 |  |
| Heating at 5°F (-15°C)           |                       | Rated Capacity |                                                                    | BTU/h        |                            | 24,000       |                             | 36,000      |                              | 48,000       |                              | 50,000 |  |
| Ambient Temperature Range        | Cooling               |                | °F (°C)                                                            |              | 5 - 131 (-15 - 55)         |              | 5 - 131 (-15 - 55)          |             | 5 - 131 (-15 - 55)           |              | 5 - 131 (-15 - 55)           |        |  |
|                                  | Heating               |                | °F (°C)                                                            |              | -22 - 80 (-30 - 27)        |              | -22 - 80 (-30 - 27)         |             | -22 - 80 (-30 - 27)          |              | -22 - 80 (-30 - 27)          |        |  |
| OUTDOOR UNIT DATA                |                       |                |                                                                    |              |                            |              |                             |             |                              |              |                              |        |  |
| Power Supply                     |                       |                | 208 -230V / 1Ph / 60Hz                                             |              |                            |              |                             |             |                              |              |                              |        |  |
| Min. / Max. Voltage              |                       |                | 187 / 253                                                          |              |                            |              |                             |             |                              |              |                              |        |  |
| Min. Circuit Ampacity (MCA)      |                       |                | A                                                                  |              | 19                         |              | 30                          |             | 36                           |              | 42                           |        |  |
| Max. Circuit Breaker (MOP)       |                       |                | A                                                                  |              | 30                         |              | 50                          |             | 60                           |              | 70                           |        |  |
| Sound Pressure Level             |                       |                | dB(A)                                                              |              | 55 / 62                    |              | 55 / 64                     |             | 59 / 67                      |              | 59 / 67                      |        |  |
| Control Voltage                  |                       |                | VAC                                                                |              | 24                         |              | 24                          |             | 24                           |              | 24                           |        |  |
|                                  | Type                  |                |                                                                    |              | Variable Rotary            |              | Variable Rotary             |             | Variable Rotary              |              | Variable Rotary              |        |  |
|                                  | Full Load Amps (FLA   |                | A                                                                  |              | 14                         |              | 22                          |             | 27                           |              | 32                           |        |  |
|                                  | Rated Load Amps (RLA) |                | A                                                                  |              | 9.5                        |              | 12.2                        |             | 8                            |              | 17.8                         |        |  |
| Condenser Coil                   |                       |                | Throttle Type                                                      |              | EEV-2.0                    |              | EEV-3.0                     |             | EEV-3.0                      |              | EEV-3.0                      |        |  |
| Fan Motor                        | Motor Type            |                |                                                                    |              | DC                         |              | DC                          |             | DC                           |              | DC                           |        |  |
|                                  | Horsepower (HP)       |                |                                                                    |              | 1/8                        |              | 1/3                         |             | 1/8 *2                       |              | 1/8 *2                       |        |  |
|                                  | Full Load Amps (FLA)  |                |                                                                    |              | 1.4                        |              | 1.8                         |             | 0.9*2                        |              | 0.9*2                        |        |  |
| External Dimensions ( W x H x D) |                       |                | in                                                                 |              | 38-1/2 x 31-5/8 x 16-9/16  |              | 43-1/8 x 33-3/8 x 19-7/16   |             | 40-11/16 x 52-11/16 x 16-1/8 |              | 40-11/16 x 52-11/16 x 16-1/8 |        |  |
|                                  |                       |                | mm                                                                 |              | 978 x 803 x 421            |              | 1096 x 858 x 494            |             | 1034 x 1339 x 409            |              | 1034 x 1339 x 409            |        |  |
| Package Dimensions (W x D x H)   |                       |                | in                                                                 |              | 40-1/4 x 32-7/8 x 18-7/8   |              | 44-11/16 x 38-3/16 x 20-7/8 |             | 42-1/2 x 57-3/8/ x 16-15/16  |              | 42-1/2 x 57-3/8/ x 16-15/16  |        |  |
|                                  |                       |                | mm                                                                 |              | 1022 x 835 x 480           |              | 1135 x 970 x 530            |             | 1080 x 1457 x 430            |              | 1080 x 1457 x 430            |        |  |
| Weight (Net / Gross)             |                       |                | lbs                                                                |              | 123 / 132                  |              | 165 / 187                   |             | 220 / 249                    |              | 225 / 253                    |        |  |
|                                  |                       |                | kgs                                                                |              | 56 / 60                    |              | 75 / 85                     |             | 100 / 113                    |              | 102 / 115                    |        |  |
| INDOOR UNIT DATA                 |                       |                |                                                                    |              |                            |              |                             |             |                              |              |                              |        |  |
| Power Supply                     |                       |                | 115V / 208 -230V / 1Ph / 60Hz                                      |              |                            |              |                             |             |                              |              |                              |        |  |
| Min. / Max. Voltage              |                       |                | 103 / 127 / 187 / 253                                              |              |                            |              |                             |             |                              |              |                              |        |  |
| Min. Circuit Ampacity - MCA      |                       |                | A                                                                  |              | 5                          |              | 5                           |             | 5                            |              | 5                            |        |  |
| Max. Circuit Breaker (MOCP)      |                       |                | A                                                                  |              | 15                         |              | 15                          |             | 15                           |              | 15                           |        |  |
| Recommended FUSE Size            |                       |                | A                                                                  |              | 15                         |              | 15                          |             | 15                           |              | 15                           |        |  |
| Sound Pressure Level             |                       |                | dB(A)                                                              |              | 45                         |              | 57                          |             | 57                           |              | 59                           |        |  |
| Throttle Type                    |                       |                |                                                                    |              | EEV-2.0                    |              | EEV-3.0                     |             | EEV-3.0                      |              | EEV-3.2                      |        |  |
| Indoor Fan Motor                 | Type                  |                | --                                                                 |              | ECM                        |              | ECM                         |             | ECM                          |              | ECM                          |        |  |
|                                  | Horsepower            |                | HP                                                                 |              | 1/3                        |              | 1/2                         |             | 3/4                          |              | 1                            |        |  |
|                                  | Full Load Amps (FLA)  |                | A                                                                  |              | 1.8                        |              | 2.2                         |             | 3.1                          |              | 3.1                          |        |  |
| Fan Blower                       |                       |                | Material                                                           |              | Metal                      |              | Metal                       |             | Metal                        |              | Metal                        |        |  |
|                                  |                       |                | Type                                                               |              | Centrifugal                |              | Centrifugal                 |             | Centrifugal                  |              | Centrifugal                  |        |  |
| Indoor Coil                      |                       |                | Type                                                               |              | Tube & Fin                 |              | Tube & Fin                  |             | Tube & Fin                   |              | Tube & Fin                   |        |  |
|                                  |                       |                | Tube Material                                                      |              | Aluminum                   |              | Aluminum                    |             | Aluminum                     |              | Aluminum                     |        |  |
| Electrical Heater (Optional)     |                       |                | kW                                                                 |              | 5 / 10                     |              | 5 / 10 / 15                 |             | 5 / 10 / 15 / 20             |              | 5 / 10 / 15 / 20             |        |  |
| Air Flow                         |                       |                | CFM                                                                |              | 835                        |              | 1200                        |             | 1530                         |              | 1800                         |        |  |
| External Static Pressure (Up to) |                       |                | In W.C.                                                            |              | 0.8                        |              | 0.8                         |             | 0.8                          |              | 0.8                          |        |  |
| Dehumidification                 |                       |                | pt/hr                                                              |              | 2.18                       |              | 4                           |             | 4.6                          |              | 6.3                          |        |  |
| External Dimensions ( W x H x D) |                       |                | in                                                                 |              | 21 x 46-1/2 x 21           |              | 21 x 46-1/2 x 21            |             | 21 x 56 x 24-1/2             |              | 21 x 56 x 24-1/2             |        |  |
|                                  |                       |                | mm                                                                 |              | 533 x 1180 x 533           |              | 533 x 1180 x 533            |             | 533 x 1422 x 622             |              | 533 x 1422 x 622             |        |  |
| Package Dimensions ( W x H x D)  |                       |                | in                                                                 |              | 22-7/8 x 52-3/8 x 26-13/16 |              | 22-7/8 x 52-3/8 x 26-13/16  |             | 26-1/4 x 62-9/16 x 29-5/16   |              | 26-1/4 x 62-9/16 x 29-5/16   |        |  |
|                                  |                       |                | mm                                                                 |              | 581 x 1330 x 682           |              | 581 x 1330 x 682            |             | 667 x 1589 x 745             |              | 667 x 1589 x 745             |        |  |
| Weight (Net / Gross)             |                       |                | lbs                                                                |              | 123 / 158                  |              | 134 / 169                   |             | 156 / 194                    |              | 176 / 214                    |        |  |
|                                  |                       |                | kgs                                                                |              | 56 / 72                    |              | 61 / 77                     |             | 71 / 88                      |              | 80 / 97                      |        |  |
| REFRIGERANT PIPING               |                       |                |                                                                    |              |                            |              |                             |             |                              |              |                              |        |  |
| Refrigerant Type / Charged       |                       |                | lbs. - oz. (kgs)                                                   |              | R32 / 4-4.1 (1.93)         |              | R32 / 6-9.8 (3)             |             | R32 / 7-11.5 (3.5)           |              | R32 / 8-6 (3.8)              |        |  |
| Pre-Charge Length                |                       |                | ft (m)                                                             |              | 25 (7.5)                   |              | 25 (7.5)                    |             | 25 (7.5)                     |              | 25 (7.5)                     |        |  |
| Additional Charge                |                       |                | oz/ft                                                              |              | 0.27                       |              | 0.27                        |             | 0.27                         |              | 0.27                         |        |  |
| Valve Size (Liquid - Suction)    |                       |                | in                                                                 |              | 3/8 - 3/4                  |              | 3/8 - 3/4                   |             | 3/8 - 3/4                    |              | 3/8 - 3/4                    |        |  |
| Line Set Size (Liquid - Gas)     |                       |                | in                                                                 |              | 3/8 - 3/4                  |              | 3/8 - 3/4                   |             | 3/8 - 7/8                    |              | 3/8 - 7/8                    |        |  |
| Lineset Length (Min - Max)       |                       |                | ft (m)                                                             |              | 25 - 165 (7.5 - 50)        |              | 25 - 165 (7.5 - 50)         |             | 25 - 165 (7.5 - 50)          |              | 25 - 165 (7.5 - 50)          |        |  |
| Max. Pipe Elevation              |                       |                | ft (m)                                                             |              | 98 (30 )                   |              | 98 (30 )                    |             | 98 (30 )                     |              | 98 (30 )                     |        |  |
| LIMITED WARRANTY                 |                       |                | 10 Years Parts, 10 Years Compressor Limited Warranty - Residential |              |                            |              |                             |             |                              |              |                              |        |  |

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