

*Air Cooled  
Condensing Units  
Featuring Copeland®  
Scroll Compressors  
7 To 13 HP, R-404A/507*

Publication No. 320s.2— September, 2012



**WITT** offers its line of 7 to 13 H.P. air cooled condensing units featuring Copeland® Scroll compressors. These condensing units are lighter in weight and very reliable when compared to similar designs using reciprocating compressors. Because of their heavy duty construction and the use of scroll compressors, the noise generated by the condensing units is greatly reduced. For smaller 2 to 6 H.P. scroll condensing units, see Witt's G-Series Publication number 311.

## WD-Series Units

## Performance @ 95°F Ambient<sup>†</sup>

### MEDIUM TEMPERATURE

CAPACITY (BTUH) AT SUCTION TEMPERATURE (°F)

| Model     | 40°     | 35°     | 30°     | 25°     | 20°     | 10°    | 0°     | -10°   | -20°   |
|-----------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| WD*O7M44  | 73,630  | 67,720  | 62,150  | 56,900  | 51,960  | 43,010 | 35,230 | 28,540 | 22,810 |
| WD*O8M44  | 98,200  | 90,880  | 83,870  | 77,160  | 70,740  | 58,740 | 47,670 | 37,190 | -      |
| WD*O10M44 | 122,980 | 114,390 | 106,120 | 98,160  | 90,510  | 76,200 | 63,130 | 51,120 | -      |
| WD*O13M44 | 146,310 | 136,650 | 127,220 | 117,960 | 108,930 | 91,560 | 75,170 | 59,530 | -      |

† - For 90°F ambient, multiply capacity by 1.03 correction factor. For 100°F ambient multiply capacity by 0.96, 0.93 for 105°F and 0.9 for 110°F ambient conditions.

### PHYSICAL DATA

| MODEL     | Compressor | Nominal Horsepower | Dimensions (in.) |    |        | Ship WT. (LBS) |        | Receiver cap. @ 90% (LBS) | Connections (ODS) |         |
|-----------|------------|--------------------|------------------|----|--------|----------------|--------|---------------------------|-------------------|---------|
|           |            |                    | L                | W  | H      | Outdoor        | Indoor |                           | liquid            | Suction |
| WD*O7M44  | ZS45K4E    | 7                  | 68               | 48 | 37-1/4 | 870            | 510    | 52.0                      | 5/8               | 1-1/8   |
| WD*O8M44  | ZB58K5E    | 8                  | 68               | 48 | 37-1/4 | 915            | 555    | 52.0                      | 5/8               | 1-1/8   |
| WD*O10M44 | ZB76K5E    | 10                 | 68               | 48 | 37-1/4 | 1085           | 725    | 52.0                      | 5/8               | 1-3/8   |
| WD*O13M44 | ZB95K5E    | 13                 | 68               | 48 | 37-1/4 | 1105           | 745    | 52.0                      | 7/8               | 1-5/8   |

### ELECTRICAL DATA

| Model     | 208-230/3/60 |     |               |            |                | 460/3/60   |     |               |            |                | 575/3/60   |     |               |            |                |
|-----------|--------------|-----|---------------|------------|----------------|------------|-----|---------------|------------|----------------|------------|-----|---------------|------------|----------------|
|           | Compressor   |     | Condenser FLA | TOTAL UNIT | Cond. Unit MCA | Compressor |     | Condenser FLA | TOTAL UNIT | Cond. Unit MCA | Compressor |     | Condenser FLA | TOTAL UNIT | Cond. Unit MCA |
|           | RLA          | LRA |               |            |                | RLA        | LRA |               |            |                | RLA        | LRA |               |            |                |
| WD*O7M44  | 21.5         | 156 | 6.2           | 28.7       | 34.1           | 8.3        | 75  | 5.0           | 13.8       | 15.9           | 7.1        | 54  | 2.6           | 10.2       | 12.0           |
| WD*O8M44  | 30.8         | 195 | 6.2           | 38.0       | 45.7           | 16.0       | 95  | 5.0           | 21.5       | 25.5           | 12.2       | 80  | 2.6           | 15.3       | 18.4           |
| WD*O10M44 | 38.6         | 239 | 6.2           | 45.8       | 55.5           | 18.6       | 125 | 5.0           | 24.1       | 28.8           | 13.1       | 80  | 2.6           | 16.2       | 19.5           |
| WD*O13M44 | 47.4         | 298 | 6.2           | 54.6       | 66.5           | 21.8       | 150 | 5.0           | 27.3       | 32.8           | 18.7       | 123 | 2.6           | 21.8       | 26.5           |

### LOW TEMPERATURE

CAPACITY (BTUH) AT SUCTION TEMPERATURE (°F)

| Model     | -10°   | -15°   | -20°   | -25°   | -30°   | -40°   |
|-----------|--------|--------|--------|--------|--------|--------|
| WD*O8L44  | 33,330 | 30,080 | 26,930 | 23,960 | 21,320 | 16,750 |
| WD*O10L44 | 45,770 | 41,270 | 36,770 | 32,700 | 28,910 | 22,070 |
| WD*O13L44 | 56,300 | 50,860 | 45,420 | 40,540 | 36,010 | 27,910 |

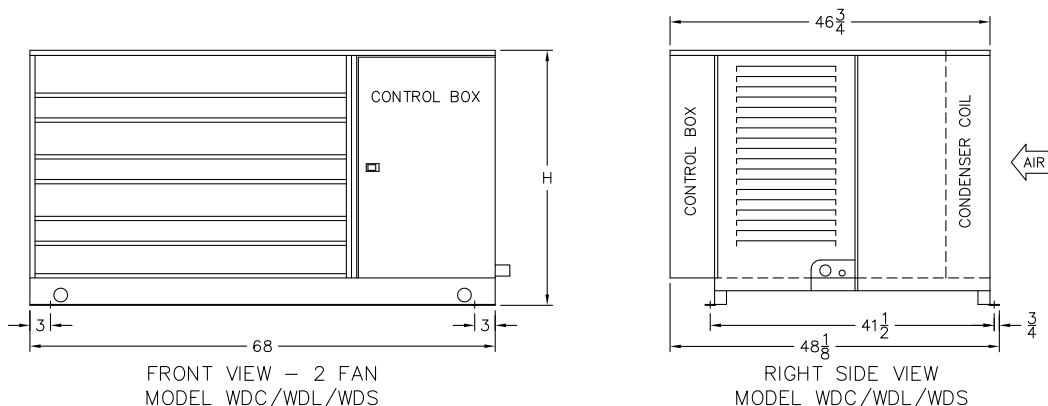
### PHYSICAL DATA

| Model     | Compressor | Nominal Horsepower | Dimensions (in.) |    |        | Ship WT. (LBS) |        | Receiver cap. @ 90% (LBS) | Connections (ODS) |         |
|-----------|------------|--------------------|------------------|----|--------|----------------|--------|---------------------------|-------------------|---------|
|           |            |                    | L                | W  | H      | Outdoor        | Indoor |                           | liquid            | Suction |
| WD*O8L44  | ZF25K4E    | 8                  | 68               | 48 | 37-1/4 | 850            | 480    | 52.0                      | 1/2               | 1-3/8   |
| WD*O10L44 | ZF34K5E    | 10                 | 68               | 48 | 37-1/4 | 1025           | 655    | 52.0                      | 5/8               | 1-5/8   |
| WD*O13L44 | ZF41K5E    | 13                 | 68               | 48 | 37-1/4 | 1050           | 680    | 52.0                      | 5/8               | 1-5/8   |

### ELECTRICAL DATA

| Model     | 208-230/3/60 |     |               |            |                | 460/3/60   |     |               |            |                | 575/3/60   |     |               |            |                |
|-----------|--------------|-----|---------------|------------|----------------|------------|-----|---------------|------------|----------------|------------|-----|---------------|------------|----------------|
|           | Compressor   |     | Condenser FLA | TOTAL UNIT | Cond. Unit MCA | Compressor |     | Condenser FLA | TOTAL UNIT | Cond. Unit MCA | Compressor |     | Condenser FLA | TOTAL UNIT | Cond. Unit MCA |
|           | RLA          | LRA |               |            |                | RLA        | LRA |               |            |                | RLA        | LRA |               |            |                |
| WD*O8L44  | 24.0         | 224 | 6.2           | 31.2       | 37.2           | 10.6       | 99  | 5.0           | 16.1       | 18.8           | 8.1        | 82  | 2.6           | 11.2       | 13.3           |
| WD*O10L44 | 33.3         | 239 | 6.2           | 40.5       | 48.9           | 16.0       | 100 | 5.0           | 21.5       | 25.5           | 12.8       | 100 | 2.6           | 15.9       | 19.1           |
| WD*O13L44 | 37.8         | 248 | 6.2           | 45.0       | 54.5           | 17.3       | 125 | 5.0           | 22.8       | 27.2           | 14.0       | 100 | 2.6           | 17.1       | 20.6           |

**NOMENCLATURE:** Replace \* with **C** to indicate outdoor unit with no head pressure control, **L** for flooded head pressure control, **S** for Wittsaver model or **E** for indoor model.



Due to ongoing product development, specifications are subject to change without notice.