



# ENH4X

## Product Specifications

### HORIZONTAL EVAPORATOR COILS

#### ALL CASED N COIL MODELS

- 2 thru 5 Tons
- Available for environmentally sound R-410A systems
- Bolt-on TXV metering device factory installed on all models (equalizer tube brazed in)
- Two condensate drain connections
- Cabinet widths match flush with ICP 17-1/2", 21" and 24-1/2" gas furnace cabinets (field fabricated transitions required to match other ICP furnace models)
- Removable front access panel
- Hemmed flanges for safer handling
- Foil faced insulation
- Non-sweat cabinet, even at extreme conditions
- Cabinets meet or exceed 2% air leakage codes
- Sturdy, pre-painted steel cabinet
- Horizontal installation
- Aluminum hairpin/return-bend/fin "N" coil with the latest high-tech fin design



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to [www.ahridirectory.org](http://www.ahridirectory.org).

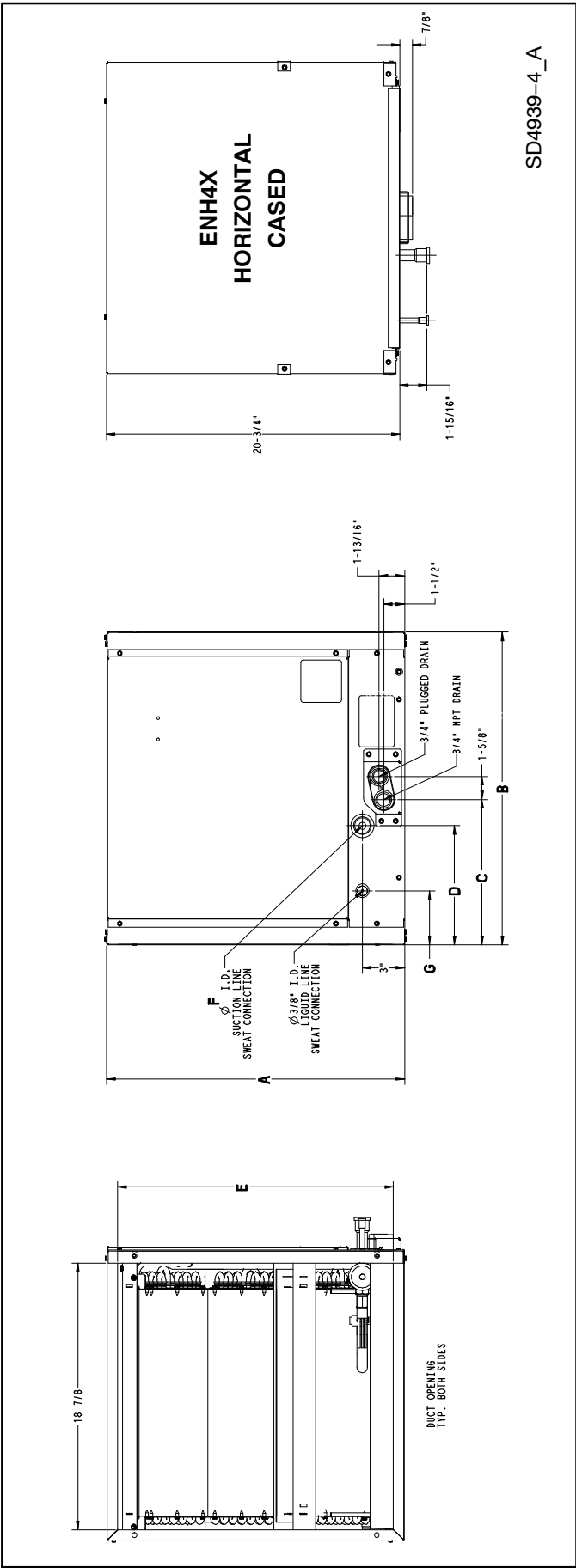


#### WARRANTY\*

- 5 year parts limited warranty
  - With timely registration, an additional 5 year parts limited warranty

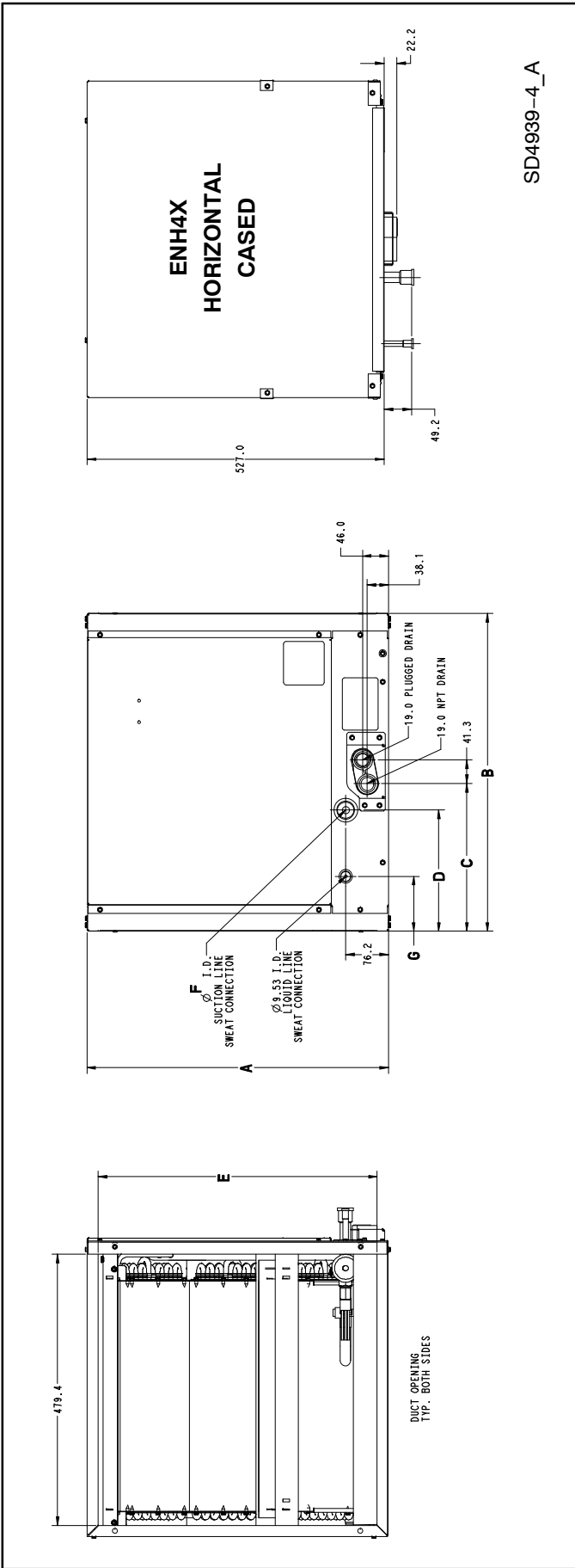
\* Applies to original purchaser/homeowner, some limitations may apply. See Warranty certificate for complete details.

| COIL MODEL NUMBER IDENTIFICATION GUIDE               |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
|------------------------------------------------------|---|---|------------------|---|---|-----|---|------|----|----|--|--|--|--|--|
| Digit Position                                       | 1 | 2 | 3                | 4 | 5 | 6,7 | 8 | 9,10 | 11 | 12 |  |  |  |  |  |
|                                                      | E | N | H                | 4 | X | 18  | L | 17   | A  | 1  |  |  |  |  |  |
| E = Evaporator                                       |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| B = Builder                                          |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| D = Standard                                         |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| N = N Coil                                           |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| A = Uncased                                          |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| D = Cased Upflow/Downflow                            |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| H = Cased Horizontal                                 |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| M = Cased Multiposition (Upflow/Downflow/Horizontal) |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| W = Cased Upflow/Downflow for narrower furnaces      |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
|                                                      |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| 4 = Environmentally Sound R-410A                     |   |   | REFRIGERANT      |   |   |     |   |      |    |    |  |  |  |  |  |
| P = Piston                                           |   |   | METERING DEVICE  |   |   |     |   |      |    |    |  |  |  |  |  |
| X = TXV                                              |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| 18 = 18,000 BTUH = 1-1/2 tons                        |   |   | NOMINAL CAPACITY |   |   |     |   |      |    |    |  |  |  |  |  |
| 19 = 18,000 BTUH = 1-1/2 tons                        |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| 24 = 24,000 BTUH = 2 tons                            |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| 30 = 30,000 BTUH = 2-1/2 tons                        |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| 31 = 30,000 BTUH = 2-1/2 tons                        |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| 36 = 36,000 BTUH = 3 tons                            |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| 37 = 36,000 BTUH = 3 tons                            |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| 42 = 42,000 BTUH = 3-1/2 tons                        |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| 43 = 42,000 BTUH = 3-1/2 tons                        |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| 48 = 48,000 BTUH = 4 tons                            |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| 60 = 60,000 BTUH = 5 tons                            |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| 61 = 60,000 BTUH = 5 tons                            |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| L = Aluminum                                         |   |   | HAIRPIN MATERIAL |   |   |     |   |      |    |    |  |  |  |  |  |
| 17 = 17-1/2"                                         |   |   | WIDTH            |   |   |     |   |      |    |    |  |  |  |  |  |
| 21 = 21"                                             |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| 24 = 24-1/2"                                         |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| Sales Digit (Major Revision)                         |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |
| Engineering Digit (Minor Revision)                   |   |   |                  |   |   |     |   |      |    |    |  |  |  |  |  |



| DIMENSIONAL DATA — ENH4X |             |                                   |               |               |               |              |          |              |                          |         |
|--------------------------|-------------|-----------------------------------|---------------|---------------|---------------|--------------|----------|--------------|--------------------------|---------|
| Model                    | Size (tons) | Inches – English (MM – SI Metric) |               |               |               |              |          |              | Shipping Weight lbs (kg) |         |
|                          |             | A                                 | B             | C             | D             | E            | F        | G            |                          |         |
| ENH4X24L17               | 2           | 17-1/2 (445)                      | 19 (483)      | 10-3/4 (273)  | 9-5/16 (237)  | 16 (406)     | 5/8 (16) | 3-13/16 (97) | Aluminum                 | 40 (18) |
| ENH4X30L17               | 2-1/2       | 17-1/2 (445)                      | 22-1/16 (560) | 10-5/16 (262) | 8-7/16 (214)  | 16 (406)     | 3/4 (19) | 3-13/16 (97) |                          | 50 (23) |
| ENH4X31L17               | 2-1/2       | 17-1/2 (445)                      | 27-1/2 (699)  | 12-7/16 (316) | 7-13/16 (198) | 16 (406)     | 3/4 (19) | 3-1/16 (81)  |                          | 44 (20) |
| ENH4X36L17               | 3           | 17-1/2 (445)                      | 22-1/16 (560) | 10-5/16 (262) | 8-7/16 (214)  | 16 (406)     | 3/4 (19) | 3-13/16 (97) |                          | 50 (22) |
| ENH4X42L21               | 3-1/2       | 21 (533)                          | 22-1/16 (560) | 10-5/16 (262) | 8-7/16 (214)  | 19-1/2 (495) | 7/8 (22) | 3-13/16 (97) |                          | 59 (27) |
| ENH4X43L21               | 3-1/2       | 21 (533)                          | 30-1/8 (766)  | 15-3/16 (385) | 10-1/2 (266)  | 19-1/2 (495) | 7/8 (22) | 5 (127)      |                          | 59 (27) |
| ENH4X48L21               | 4           | 21 (533)                          | 28-1/16 (713) | 13-3/16 (335) | 8-7/16 (214)  | 19-1/2 (495) | 7/8 (22) | 3-13/16 (97) |                          | 71 (32) |
| ENH4X60L24               | 5           | 24-1/2 (622)                      | 29 (737)      | 14-1/8 (359)  | 9-5/16 (237)  | 23 (584)     | 7/8 (22) | 3-13/16 (97) |                          | 81 (37) |
| ENH4X61L24               | 5           | 24-1/2 (622)                      | 29-1/16 (738) | 14-1/16 (357) | 9-5/16 (237)  | 23 (584)     | 7/8 (22) | 3-7/8 (98)   |                          | 88 (40) |

SI Metric Drawing – ENH4X



| PHYSICAL DATA                                                                      |                        |                        |       |                        |                        |                        |                        |                        |       |  |
|------------------------------------------------------------------------------------|------------------------|------------------------|-------|------------------------|------------------------|------------------------|------------------------|------------------------|-------|--|
| ENH4X                                                                              | Model Size             |                        |       |                        |                        |                        |                        |                        |       |  |
|                                                                                    | 24L17                  | 30L17                  | 31L17 | 36L17                  | 42L21                  | 43L21                  | 48L21                  | 60L24                  | 61L24 |  |
| Nominal Acceptable CFM Range                                                       |                        |                        |       |                        |                        |                        |                        |                        |       |  |
| CFM (L/s) – min                                                                    | 700 (330)              | 875 (413)              |       | 1050 (496)             | 1225 (578)             | 1400 (661)             | 1750 (826)             |                        |       |  |
| CFM (L/s) – max                                                                    | 900 (425)              | 1125 (531)             |       | 1350 (637)             | 1600 (755)             | 1800 (849)             | 2000 (944)             |                        |       |  |
| Coil Data (all coils 2 slab "A" configuration, lanced sine wave bare aluminum fin) |                        |                        |       |                        |                        |                        |                        |                        |       |  |
| Face Area ft <sup>2</sup> (m <sup>2</sup> )                                        | 4.01 (0.37)            | 4.68 (0.43)            |       | 4.68 (0.43)            | 5.35 (0.50)            | 8.02 (0.75)            | 6.68 (0.62)            | 8.02 (0.75)            |       |  |
| Each Slab<br>H x L in. (mm)                                                        | 12 x 16<br>(305 x 406) | 14 x 16<br>(356 x 406) |       | 14 x 16<br>(356 x 406) | 16 x 16<br>(406 x 406) | 24 x 16<br>(610 x 406) | 20 x 16<br>(508 x 406) | 24 x 16<br>(610 x 406) |       |  |
| Fins Per Inch                                                                      | 16                     | 16                     |       | 16                     | 16                     | 16                     | 16                     | 17                     |       |  |
| Refrigerant Line Connections (sweat)                                               |                        |                        |       |                        |                        |                        |                        |                        |       |  |
| Liquid in. (mm)                                                                    | 3/8 (10)               | 3/8 (10)               |       | 3/8 (10)               | 3/8 (10)               | 3/8 (10)               | 3/8 (10)               | 3/8 (10)               |       |  |
| Suction in. (mm)                                                                   | 3/4 (19)               | 3/4 (19)               |       | 3/4 (19)               | 7/8 (22)               | 7/8 (22)               | 7/8 (22)               | 7/8 (22)               |       |  |

| COOLING CAPACITIES (MBH) |                    |         |                                                  |       |      |        |       |      |        |       |      |        |       |      |         |       |      |
|--------------------------|--------------------|---------|--------------------------------------------------|-------|------|--------|-------|------|--------|-------|------|--------|-------|------|---------|-------|------|
| UNIT<br>SIZE             | INDOOR COIL<br>AIR |         | SATURATED TEMPERATURE LEAVING EVAPORATOR °F (°C) |       |      |        |       |      |        |       |      |        |       |      |         |       |      |
|                          |                    |         | 30 (-1)                                          |       |      | 35 (2) |       |      | 40 (4) |       |      | 45 (7) |       |      | 50 (10) |       |      |
|                          | CFM                | EWB     | TC                                               | SHC   | BF   | TC     | SHC   | BF   | TC     | SHC   | BF   | TC     | SHC   | BF   | TC      | SHC   | BF   |
| 24                       | 600                | 72 (22) | 39.00                                            | 19.00 | 0.00 | 36.00  | 17.50 | 0.00 | 32.70  | 15.90 | 0.00 | 28.80  | 14.10 | 0.00 | 24.60   | 12.30 | 0.01 |
|                          |                    | 67 (19) | 32.80                                            | 19.80 | 0.01 | 29.80  | 18.20 | 0.01 | 26.30  | 16.40 | 0.01 | 22.40  | 14.60 | 0.02 | 18.10   | 12.60 | 0.02 |
|                          |                    | 62 (17) | 27.20                                            | 20.50 | 0.02 | 24.00  | 18.70 | 0.02 | 20.50  | 16.90 | 0.02 | 16.60  | 15.00 | 0.02 | 13.10   | 13.10 | 0.05 |
|                          | 800                | 72 (22) | 47.10                                            | 22.80 | 0.00 | 43.60  | 21.10 | 0.00 | 39.60  | 19.30 | 0.00 | 35.00  | 17.30 | 0.02 | 29.90   | 15.10 | 0.02 |
|                          |                    | 67 (19) | 39.80                                            | 24.20 | 0.03 | 36.10  | 22.30 | 0.03 | 32.00  | 20.30 | 0.03 | 27.30  | 18.10 | 0.03 | 22.00   | 15.90 | 0.03 |
|                          |                    | 62 (17) | 33.10                                            | 25.40 | 0.03 | 29.30  | 23.40 | 0.03 | 25.10  | 21.20 | 0.03 | 20.50  | 19.00 | 0.04 | 16.70   | 16.70 | 0.09 |
|                          | 1000               | 72 (22) | 53.40                                            | 25.90 | 0.00 | 49.50  | 24.20 | 0.00 | 45.10  | 22.10 | 0.02 | 40.00  | 19.90 | 0.03 | 34.10   | 17.50 | 0.04 |
|                          |                    | 67 (19) | 45.30                                            | 27.90 | 0.05 | 41.20  | 25.90 | 0.05 | 36.60  | 23.70 | 0.05 | 31.30  | 21.30 | 0.05 | 25.20   | 18.70 | 0.05 |
|                          |                    | 62 (17) | 37.80                                            | 29.60 | 0.05 | 33.60  | 27.40 | 0.05 | 28.80  | 25.10 | 0.05 | 23.80  | 22.70 | 0.06 | 20.00   | 20.00 | 0.13 |
| 30                       | 750                | 72 (22) | 48.00                                            | 23.50 | 0.00 | 44.00  | 21.40 | 0.00 | 39.70  | 19.20 | 0.00 | 34.80  | 17.00 | 0.00 | 29.40   | 14.60 | 0.01 |
|                          |                    | 67 (19) | 40.30                                            | 24.20 | 0.01 | 36.20  | 22.00 | 0.02 | 31.80  | 19.70 | 0.02 | 26.80  | 17.40 | 0.02 | 21.40   | 15.00 | 0.02 |
|                          |                    | 62 (17) | 33.20                                            | 24.80 | 0.02 | 29.10  | 22.50 | 0.02 | 24.60  | 20.20 | 0.02 | 19.90  | 17.90 | 0.02 | 15.60   | 15.60 | 0.05 |
|                          | 1000               | 72 (22) | 58.70                                            | 28.50 | 0.00 | 53.90  | 26.10 | 0.00 | 48.50  | 23.60 | 0.00 | 42.50  | 20.90 | 0.02 | 35.80   | 18.10 | 0.03 |
|                          |                    | 67 (19) | 49.40                                            | 29.90 | 0.03 | 44.40  | 27.30 | 0.03 | 38.90  | 24.60 | 0.04 | 32.90  | 21.70 | 0.04 | 26.20   | 18.80 | 0.04 |
|                          |                    | 62 (17) | 40.80                                            | 30.90 | 0.04 | 35.80  | 28.20 | 0.04 | 30.30  | 25.40 | 0.04 | 24.60  | 22.60 | 0.05 | 19.90   | 19.90 | 0.10 |
|                          | 1250               | 72 (22) | 67.40                                            | 32.70 | 0.00 | 61.90  | 30.10 | 0.00 | 55.70  | 27.30 | 0.02 | 48.80  | 24.20 | 0.04 | 41.10   | 21.00 | 0.05 |
|                          |                    | 67 (19) | 56.80                                            | 34.70 | 0.05 | 51.20  | 31.80 | 0.06 | 44.90  | 28.70 | 0.06 | 37.80  | 25.50 | 0.06 | 30.10   | 22.20 | 0.06 |
|                          |                    | 62 (17) | 47.10                                            | 36.30 | 0.06 | 41.30  | 33.20 | 0.06 | 35.00  | 30.10 | 0.06 | 28.60  | 27.00 | 0.07 | 23.70   | 23.70 | 0.14 |
| 31                       | 750                | 72 (22) | 74.50                                            | 37.07 | 0.00 | 68.51  | 33.85 | 0.00 | 61.86  | 30.50 | 0.00 | 54.41  | 27.00 | 0.00 | 46.04   | 23.35 | 0.00 |
|                          |                    | 67 (19) | 62.13                                            | 37.73 | 0.01 | 56.03  | 34.37 | 0.01 | 49.24  | 30.87 | 0.01 | 41.66  | 27.24 | 0.01 | 32.96   | 23.39 | 0.01 |
|                          |                    | 62 (17) | 50.98                                            | 38.20 | 0.01 | 44.75  | 34.72 | 0.01 | 37.95  | 31.17 | 0.01 | 30.17  | 27.36 | 0.01 | 23.70   | 23.70 | 0.06 |
|                          | 1000               | 72 (22) | 92.35                                            | 45.51 | 0.00 | 85.01  | 41.76 | 0.00 | 76.78  | 37.78 | 0.00 | 67.46  | 33.54 | 0.01 | 57.03   | 29.08 | 0.01 |
|                          |                    | 67 (19) | 77.15                                            | 46.96 | 0.02 | 69.62  | 42.94 | 0.02 | 61.18  | 38.71 | 0.02 | 51.69  | 34.27 | 0.02 | 41.04   | 29.62 | 0.02 |
|                          |                    | 62 (17) | 63.39                                            | 48.06 | 0.02 | 55.66  | 43.85 | 0.02 | 47.21  | 39.53 | 0.02 | 38.21  | 35.15 | 0.02 | 30.59   | 30.59 | 0.08 |
|                          | 1250               | 72 (22) | 107.37                                           | 52.63 | 0.00 | 98.97  | 48.52 | 0.00 | 89.37  | 44.04 | 0.01 | 78.59  | 39.23 | 0.02 | 66.39   | 34.13 | 0.02 |
|                          |                    | 67 (19) | 89.89                                            | 54.97 | 0.03 | 81.19  | 50.47 | 0.03 | 71.37  | 45.67 | 0.03 | 60.28  | 40.57 | 0.03 | 47.77   | 35.20 | 0.03 |
|                          |                    | 62 (17) | 73.97                                            | 56.83 | 0.03 | 64.99  | 52.05 | 0.03 | 55.22  | 47.14 | 0.03 | 44.93  | 42.16 | 0.04 | 36.94   | 36.94 | 0.11 |
| 36                       | 900                | 72 (22) | 58.10                                            | 28.30 | 0.00 | 53.40  | 25.90 | 0.00 | 48.00  | 23.30 | 0.00 | 42.10  | 20.60 | 0.01 | 35.50   | 17.80 | 0.02 |
|                          |                    | 67 (19) | 48.90                                            | 29.50 | 0.02 | 44.00  | 26.90 | 0.03 | 38.50  | 24.20 | 0.03 | 32.50  | 21.30 | 0.03 | 25.90   | 18.40 | 0.03 |
|                          |                    | 62 (17) | 40.40                                            | 30.40 | 0.03 | 35.40  | 27.70 | 0.03 | 29.90  | 24.90 | 0.03 | 24.20  | 22.10 | 0.04 | 19.40   | 19.40 | 0.08 |
|                          | 1200               | 72 (22) | 70.00                                            | 33.90 | 0.00 | 64.30  | 31.20 | 0.00 | 57.80  | 28.30 | 0.02 | 50.70  | 25.10 | 0.04 | 42.70   | 21.80 | 0.05 |
|                          |                    | 67 (19) | 58.90                                            | 35.90 | 0.05 | 53.10  | 32.90 | 0.05 | 46.50  | 29.70 | 0.05 | 39.30  | 26.40 | 0.06 | 31.20   | 22.90 | 0.06 |
|                          |                    | 62 (17) | 48.80                                            | 37.50 | 0.06 | 42.80  | 34.30 | 0.06 | 36.30  | 31.00 | 0.06 | 29.60  | 27.80 | 0.06 | 24.40   | 24.40 | 0.13 |
|                          | 1500               | 72 (22) | 79.30                                            | 38.60 | 0.00 | 72.90  | 35.60 | 0.02 | 65.70  | 32.30 | 0.05 | 57.50  | 28.80 | 0.06 | 48.50   | 25.10 | 0.07 |
|                          |                    | 67 (19) | 67.00                                            | 41.30 | 0.08 | 60.40  | 38.00 | 0.08 | 53.00  | 34.40 | 0.08 | 44.70  | 30.70 | 0.08 | 35.50   | 26.80 | 0.09 |
|                          |                    | 62 (17) | 55.70                                            | 43.60 | 0.09 | 48.80  | 40.00 | 0.09 | 41.60  | 36.50 | 0.09 | 34.20  | 32.90 | 0.10 | 28.80   | 28.80 | 0.18 |
| 42                       | 1050               | 72 (22) | 74.40                                            | 36.30 | 0.00 | 68.10  | 33.10 | 0.00 | 61.20  | 29.70 | 0.00 | 53.50  | 26.20 | 0.01 | 45.00   | 22.60 | 0.02 |
|                          |                    | 67 (19) | 62.30                                            | 37.60 | 0.02 | 56.00  | 34.20 | 0.03 | 48.90  | 30.60 | 0.03 | 41.20  | 27.00 | 0.03 | 32.80   | 23.30 | 0.03 |
|                          |                    | 62 (17) | 51.40                                            | 38.60 | 0.03 | 44.90  | 35.00 | 0.03 | 37.90  | 31.40 | 0.03 | 30.60  | 27.80 | 0.04 | 24.40   | 24.40 | 0.08 |
|                          | 1400               | 72 (22) | 90.20                                            | 43.80 | 0.00 | 82.60  | 40.10 | 0.00 | 74.10  | 36.20 | 0.01 | 64.70  | 32.00 | 0.04 | 54.40   | 27.60 | 0.05 |
|                          |                    | 67 (19) | 75.80                                            | 46.00 | 0.05 | 68.00  | 42.00 | 0.05 | 59.40  | 37.70 | 0.06 | 50.00  | 33.40 | 0.06 | 39.60   | 28.90 | 0.06 |
|                          |                    | 62 (17) | 62.60                                            | 47.70 | 0.06 | 54.70  | 43.50 | 0.06 | 46.20  | 39.20 | 0.06 | 37.50  | 35.00 | 0.07 | 30.70   | 30.70 | 0.13 |
|                          | 1750               | 72 (22) | 103.00                                           | 50.00 | 0.00 | 94.30  | 46.00 | 0.00 | 84.60  | 41.50 | 0.05 | 73.90  | 36.80 | 0.06 | 62.00   | 32.00 | 0.07 |
|                          |                    | 67 (19) | 86.70                                            | 53.10 | 0.08 | 77.80  | 48.60 | 0.08 | 68.00  | 43.90 | 0.08 | 57.10  | 39.00 | 0.08 | 45.20   | 33.90 | 0.09 |
|                          |                    | 62 (17) | 71.70                                            | 55.70 | 0.09 | 62.70  | 50.90 | 0.09 | 53.10  | 46.20 | 0.09 | 43.40  | 41.50 | 0.10 | 36.30   | 36.30 | 0.18 |
| 43                       | 1050               | 72 (22) | 96.72                                            | 47.64 | 0.00 | 89.31  | 43.85 | 0.00 | 80.91  | 39.78 | 0.00 | 71.39  | 35.44 | 0.00 | 60.74   | 30.89 | 0.01 |
|                          |                    | 67 (19) | 80.93                                            | 49.26 | 0.01 | 73.30  | 45.20 | 0.01 | 64.67  | 40.88 | 0.01 | 54.97  | 36.34 | 0.01 | 43.99   | 31.53 | 0.01 |
|                          |                    | 62 (17) | 66.64                                            | 50.56 | 0.01 | 58.77  | 46.28 | 0.01 | 50.10  | 41.84 | 0.01 | 40.70  | 37.29 | 0.02 | 32.63   | 32.63 | 0.07 |
|                          | 1400               | 72 (22) | 117.07                                           | 57.30 | 0.00 | 108.20 | 53.03 | 0.00 | 98.03  | 48.31 | 0.01 | 86.74  | 43.33 | 0.02 | 73.81   | 37.96 | 0.02 |
|                          |                    | 67 (19) | 98.18                                            | 60.23 | 0.03 | 89.03  | 55.55 | 0.03 | 78.69  | 50.55 | 0.03 | 66.93  | 45.19 | 0.03 | 53.54   | 39.46 | 0.03 |
|                          |                    | 62 (17) | 81.03                                            | 62.70 | 0.03 | 71.60  | 57.72 | 0.03 | 61.25  | 52.56 | 0.03 | 50.15  | 47.21 | 0.03 | 41.46   | 41.46 | 0.11 |
|                          | 1750               | 72 (22) | 133.38                                           | 65.28 | 0.00 | 123.30 | 60.58 | 0.02 | 111.98 | 55.48 | 0.03 | 99.21  | 50.01 | 0.04 | 84.49   | 44.04 | 0.04 |
|                          |                    | 67 (19) | 112.09                                           | 69.50 | 0.04 | 101.79 | 64.41 | 0.05 | 90.14  | 58.95 | 0.05 | 76.76  | 52.99 | 0.05 | 61.46   | 46.55 | 0.05 |
|                          |                    | 62 (17) | 92.72                                            | 73.26 | 0.05 | 82.16  | 67.85 | 0.05 | 70.58  | 62.18 | 0.05 | 58.38  | 56.24 | 0.06 | 49.33   | 49.33 | 0.15 |

— Continued on next page —

Legend:

CFM – Cubic Ft. per Minute

EWB – Entering Wet Bulb

LWB – Leaving Wet Bulb

TC – Gross Cooling Capacity 1000 Btuh

SHC – Gross Sensible Capacity 1000 Btuh

BF – Bypass Factor

MBH – 1000 Btuh

See notes following.

| COOLING CAPACITIES (MBH) (cont) |                    |         |                                                  |       |      |        |       |      |        |       |      |        |       |      |         |       |      |
|---------------------------------|--------------------|---------|--------------------------------------------------|-------|------|--------|-------|------|--------|-------|------|--------|-------|------|---------|-------|------|
| UNIT<br>SIZE                    | INDOOR<br>COIL AIR |         | SATURATED TEMPERATURE LEAVING EVAPORATOR °F (°C) |       |      |        |       |      |        |       |      |        |       |      |         |       |      |
|                                 |                    |         | 30 (-1)                                          |       |      | 35 (2) |       |      | 40 (4) |       |      | 45 (7) |       |      | 50 (10) |       |      |
|                                 | CFM                | EWB     | TC                                               | SHC   | BF   | TC     | SHC   | BF   | TC     | SHC   | BF   | TC     | SHC   | BF   | TC      | SHC   | BF   |
| 48                              | 1200               | 72 (22) | 79.30                                            | 38.70 | 0.00 | 72.90  | 35.40 | 0.00 | 65.70  | 31.90 | 0.00 | 57.70  | 28.20 | 0.00 | 48.80   | 24.40 | 0.01 |
|                                 |                    | 67 (19) | 66.60                                            | 40.20 | 0.02 | 60.00  | 36.60 | 0.02 | 52.70  | 32.90 | 0.02 | 44.60  | 29.10 | 0.02 | 35.70   | 25.10 | 0.03 |
|                                 |                    | 62 (17) | 55.00                                            | 41.30 | 0.03 | 48.30  | 37.60 | 0.03 | 40.90  | 33.80 | 0.03 | 33.10  | 30.00 | 0.03 | 26.30   | 26.30 | 0.07 |
|                                 | 1600               | 72 (22) | 96.00                                            | 46.60 | 0.00 | 88.30  | 42.90 | 0.00 | 79.60  | 38.90 | 0.00 | 69.90  | 34.50 | 0.03 | 59.10   | 30.00 | 0.04 |
|                                 |                    | 67 (19) | 80.90                                            | 49.20 | 0.04 | 72.90  | 45.00 | 0.04 | 64.10  | 40.70 | 0.05 | 54.20  | 36.10 | 0.05 | 43.30   | 31.40 | 0.05 |
|                                 |                    | 62 (17) | 67.00                                            | 51.20 | 0.05 | 58.80  | 46.80 | 0.05 | 49.90  | 42.30 | 0.05 | 40.70  | 37.90 | 0.05 | 33.30   | 33.30 | 0.11 |
|                                 | 2000               | 72 (22) | 109.40                                           | 53.10 | 0.00 | 100.70 | 49.10 | 0.00 | 90.90  | 44.60 | 0.03 | 79.90  | 39.80 | 0.05 | 67.50   | 34.70 | 0.06 |
|                                 |                    | 67 (19) | 92.40                                            | 56.70 | 0.06 | 83.40  | 52.20 | 0.07 | 73.30  | 47.40 | 0.07 | 62.00  | 42.20 | 0.07 | 49.50   | 36.90 | 0.07 |
|                                 |                    | 62 (17) | 76.70                                            | 59.70 | 0.07 | 67.50  | 54.90 | 0.08 | 57.40  | 49.90 | 0.08 | 47.20  | 44.90 | 0.08 | 39.50   | 39.50 | 0.16 |
| 60                              | 1600               | 72 (22) | 103.20                                           | 50.40 | 0.00 | 94.40  | 45.90 | 0.00 | 84.80  | 41.10 | 0.00 | 74.10  | 36.30 | 0.00 | 62.40   | 31.20 | 0.02 |
|                                 |                    | 67 (19) | 86.40                                            | 52.10 | 0.02 | 77.50  | 47.20 | 0.02 | 67.80  | 42.30 | 0.02 | 57.10  | 37.20 | 0.03 | 45.40   | 32.10 | 0.03 |
|                                 |                    | 62 (17) | 71.20                                            | 53.30 | 0.03 | 62.20  | 48.30 | 0.03 | 52.40  | 43.30 | 0.03 | 42.30  | 38.30 | 0.03 | 33.50   | 33.50 | 0.07 |
|                                 | 2000               | 72 (22) | 120.70                                           | 58.70 | 0.00 | 110.40 | 53.60 | 0.00 | 99.00  | 48.20 | 0.00 | 86.40  | 42.50 | 0.02 | 72.60   | 36.70 | 0.03 |
|                                 |                    | 67 (19) | 101.20                                           | 61.30 | 0.03 | 90.70  | 55.70 | 0.04 | 79.20  | 50.00 | 0.04 | 66.60  | 44.10 | 0.04 | 52.80   | 38.10 | 0.05 |
|                                 |                    | 62 (17) | 83.40                                            | 63.20 | 0.05 | 72.80  | 57.40 | 0.05 | 61.40  | 51.60 | 0.05 | 49.70  | 46.00 | 0.05 | 40.30   | 40.30 | 0.11 |
|                                 | 2400               | 72 (22) | 135.60                                           | 65.80 | 0.00 | 124.10 | 60.30 | 0.00 | 111.20 | 54.40 | 0.01 | 97.00  | 48.00 | 0.04 | 81.30   | 41.50 | 0.05 |
|                                 |                    | 67 (19) | 113.90                                           | 69.30 | 0.05 | 102.10 | 63.20 | 0.06 | 89.10  | 56.90 | 0.06 | 74.80  | 50.30 | 0.06 | 59.20   | 43.60 | 0.06 |
|                                 |                    | 62 (17) | 94.10                                            | 72.10 | 0.06 | 82.10  | 65.70 | 0.06 | 69.30  | 59.30 | 0.06 | 56.40  | 53.00 | 0.07 | 46.50   | 46.50 | 0.14 |
| 61                              | 1600               | 72 (22) | 142.31                                           | 69.71 | 0.00 | 131.14 | 64.12 | 0.00 | 118.67 | 58.20 | 0.00 | 104.55 | 51.83 | 0.01 | 88.62   | 45.08 | 0.02 |
|                                 |                    | 67 (19) | 119.05                                           | 72.45 | 0.02 | 107.63 | 66.45 | 0.02 | 94.79  | 60.09 | 0.02 | 80.30  | 53.36 | 0.02 | 63.94   | 46.26 | 0.02 |
|                                 |                    | 62 (17) | 97.96                                            | 74.63 | 0.03 | 86.21  | 68.29 | 0.02 | 73.29  | 61.74 | 0.02 | 59.53  | 55.08 | 0.03 | 48.11   | 48.11 | 0.09 |
|                                 | 2000               | 72 (22) | 164.20                                           | 80.16 | 0.00 | 151.58 | 74.13 | 0.00 | 137.25 | 67.52 | 0.02 | 121.04 | 60.38 | 0.03 | 102.61  | 52.74 | 0.03 |
|                                 |                    | 67 (19) | 137.68                                           | 84.38 | 0.04 | 124.66 | 77.75 | 0.04 | 109.89 | 70.63 | 0.04 | 93.13  | 63.00 | 0.04 | 74.14   | 54.89 | 0.04 |
|                                 |                    | 62 (17) | 113.54                                           | 87.89 | 0.04 | 100.05 | 80.79 | 0.04 | 85.34  | 73.48 | 0.04 | 69.79  | 65.96 | 0.05 | 57.86   | 57.86 | 0.12 |
|                                 | 2400               | 72 (22) | 182.47                                           | 89.12 | 0.00 | 168.62 | 82.68 | 0.02 | 152.91 | 75.56 | 0.04 | 134.97 | 67.83 | 0.04 | 114.48  | 59.50 | 0.05 |
|                                 |                    | 67 (19) | 153.40                                           | 94.82 | 0.05 | 139.05 | 87.71 | 0.05 | 122.70 | 80.00 | 0.05 | 104.07 | 71.67 | 0.06 | 82.87   | 62.74 | 0.06 |
|                                 |                    | 62 (17) | 126.74                                           | 99.73 | 0.06 | 111.87 | 92.08 | 0.06 | 95.76  | 84.19 | 0.06 | 78.98  | 76.01 | 0.07 | 66.58   | 66.58 | 0.16 |

Legend:

CFM – Cubic Ft. per Minute

SHC – Gross Sensible Capacity 1000 Btuh

EWB – Entering Wet Bulb

BF – Bypass Factor

LWB – Leaving Wet Bulb

MBH – 1000 Btuh

TC – Gross Cooling Capacity 1000 Btuh

See notes following.

**NOTES:**

1. Contact manufacturer for cooling capacities at conditions other than shown in table.
2. Formulas:  

$$\text{Leaving db} = \text{entering db} - \frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$$

$$\text{Leaving wb} = \text{wb corresponding to enthalpy of air leaving coil (h}_{LWB})$$

$$h_{LWB} = h_{EWB} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{CFM}}$$

Where  $h_{EWB}$  = enthalpy of air entering coil
3. SHC is based on 80°F (27°C) db temperature of air entering the evaporator coil.  
 Below 80°F (27°C) db, subtract (Correction Factor x CFM) from SHC.  
 Above 80°F (27°C) db, add (Correction Factor x CFM) to SHC.
4. Direct interpolation is permissible. Do not extrapolate.
5. Fan motor heat has not been deducted.
6. All data points are based on 10°F (-12°C) superheat leaving coil and use of thermostatic expansion valve (TXV) device.
7. The ENH4X coils can be used in any properly designed system using R-410A refrigerant.
8. Before using maximum cfm shown in table, check coil static pressure drop to ensure system blower can provide necessary static pressure needed for coil and duct systems.
9. Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

| BYPASS FACTOR     | ENTERING AIR DRY BULB TEMPERATURE °F (°C) |         |         |         |         |                         |
|-------------------|-------------------------------------------|---------|---------|---------|---------|-------------------------|
|                   | 79 (26)                                   | 78 (26) | 77 (25) | 76 (24) | 75 (24) | Under 75 (24)           |
|                   | 81 (27)                                   | 82 (28) | 83 (28) | 84 (29) | 84 (29) | Above 85 (29)           |
| Correction Factor |                                           |         |         |         |         |                         |
| 0.10              | 0.98                                      | 1.96    | 2.94    | 3.92    | 4.91    | Use formula shown below |
| 0.20              | 0.87                                      | 1.74    | 2.62    | 3.49    | 4.36    |                         |
| 0.30              | 0.76                                      | 1.53    | 2.29    | 3.05    | 3.82    |                         |

Interpolation is permissible.

Correction Factor =  $1.09 \times (1 - \text{BF}) \times (\text{db} - 80)$

| COIL STATIC PRESSURE DROP (in. w.c.) |              |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|--------------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| UNIT<br>SIZE                         | Standard CFM |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                                      | 400          | 500   | 600   | 700   | 800   | 900   | 1000  | 1100  | 1200  | 1300  | 1400  | 1500  | 1600  | 1700  | 1800  | 1900  | 2000  | 2100  | 2200  |
| 24                                   | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                                      | 0.048        | 0.068 | 0.090 | 0.112 | 0.140 | 0.170 | 0.203 |       |       |       |       |       |       |       |       |       |       |       |       |
|                                      | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 30                                   | 0.064        | 0.091 | 0.122 | 0.150 | 0.188 | 0.224 | 0.263 |       |       |       |       |       |       |       |       |       |       |       |       |
|                                      | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                                      | 0.042        | 0.060 | 0.080 | 0.102 | 0.128 | 0.157 | 0.188 | 0.222 | 0.259 |       |       |       |       |       |       |       |       |       |       |
| 31                                   | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                                      | 0.055        | 0.076 | 0.104 | 0.127 | 0.158 | 0.190 | 0.225 | 0.266 | 0.309 |       |       |       |       |       |       |       |       |       |       |
|                                      | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 36                                   | 0.031        | 0.046 | 0.063 | 0.083 | 0.105 | 0.130 | 0.156 | 0.193 | 0.230 |       |       |       |       |       |       |       |       |       |       |
|                                      | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                                      | 0.039        | 0.056 | 0.075 | 0.097 | 0.121 | 0.149 | 0.179 | 0.212 | 0.249 |       |       |       |       |       |       |       |       |       |       |
| 42                                   | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                                      | 0.043        | 0.061 | 0.082 | 0.103 | 0.128 | 0.157 | 0.189 | 0.221 | 0.259 | 0.299 | 0.341 |       |       |       |       |       |       |       |       |
|                                      | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 43                                   | 0.056        | 0.079 | 0.107 | 0.133 | 0.166 | 0.200 | 0.236 | 0.276 | 0.315 | 0.361 | 0.413 |       |       |       |       |       |       |       |       |
|                                      | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                                      | 0.030        | 0.041 | 0.054 | 0.066 | 0.082 | 0.099 | 0.118 | 0.137 | 0.158 | 0.180 | 0.205 | 0.231 | 0.259 |       |       |       |       |       |       |
| 48                                   | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                                      | 0.043        | 0.059 | 0.078 | 0.101 | 0.126 | 0.153 | 0.181 | 0.207 | 0.234 | 0.260 | 0.288 | 0.319 | 0.354 |       |       |       |       |       |       |
|                                      | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 60                                   |              | 0.040 | 0.052 | 0.066 | 0.081 | 0.098 | 0.177 | 0.137 | 0.156 | 0.183 | 0.205 | 0.233 |       |       |       |       |       |       |       |
|                                      | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                                      |              | 0.049 | 0.062 | 0.079 | 0.096 | 0.114 | 0.138 | 0.162 | 0.189 | 0.216 | 0.239 | 0.27  |       |       |       |       |       |       |       |
| 61                                   | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                                      |              |       | 0.047 | 0.060 | 0.075 | 0.092 | 0.110 | 0.130 | 0.152 | 0.176 | 0.204 | 0.230 | 0.256 | 0.284 | 0.318 |       |       |       |       |
|                                      | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 66                                   |              |       | 0.053 | 0.067 | 0.085 | 0.104 | 0.125 | 0.147 | 0.172 | 0.200 | 0.228 | 0.259 | 0.292 | 0.327 | 0.365 |       |       |       |       |
|                                      | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                                      |              |       |       |       | 0.062 | 0.073 | 0.084 | 0.097 | 0.111 | 0.126 | 0.138 | 0.154 | 0.172 | 0.190 | 0.210 | 0.228 | 0.251 | 0.273 | 0.293 |
| 72                                   | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                                      |              |       |       |       | 0.082 | 0.096 | 0.112 | 0.129 | 0.145 | 0.163 | 0.171 | 0.191 | 0.212 | 0.235 | 0.258 | 0.283 | 0.310 | 0.336 | 0.366 |
|                                      | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 84                                   |              |       |       |       |       |       |       |       |       | 0.196 | 0.216 | 0.238 | 0.259 | 0.286 | 0.312 | 0.336 | 0.363 | 0.390 |       |
|                                      | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|                                      |              |       |       |       |       |       |       |       |       | 0.208 | 0.233 | 0.259 | 0.281 | 0.307 | 0.339 | 0.368 | 0.400 | 0.431 |       |