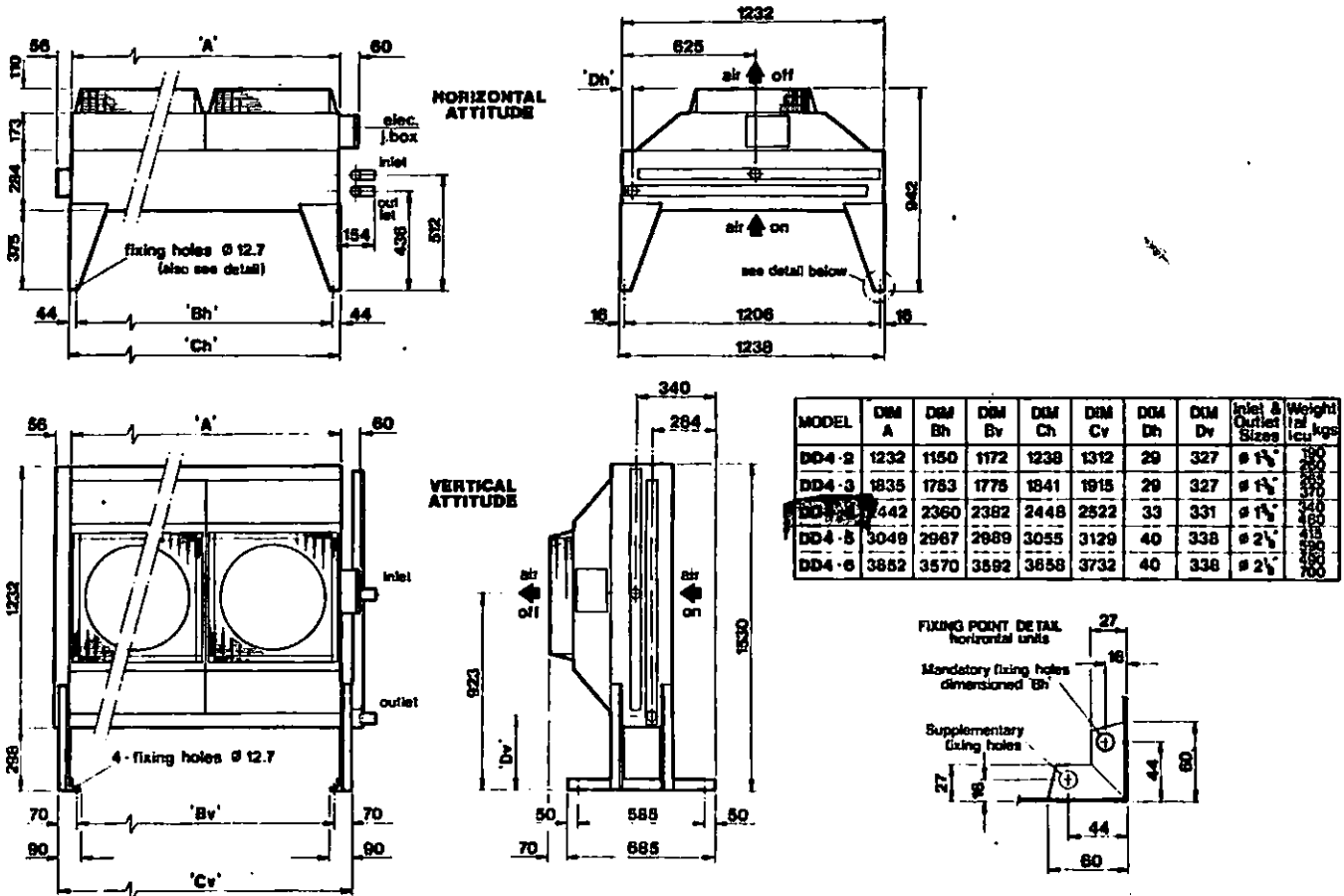


Dimensions



Technical data

| MODEL | AIR VOLUME | | | No of Fans | Surface area | | REFRIGERANT CHARGE Kg | | MOTORS 380/420-3-50 | | |
|-----------|------------|-------------------|-------------------|------------|-----------------|----------------|-----------------------|------------|---------------------|--------------|------------|
| | C.F.M. | m ³ /s | m ³ /h | | ft ² | m ² | R12 | R22 & R502 | POWER IN WATTS | Total FcAmps | Total LRCA |
| DD4-24 | 9,570 | 4.51 | 16,220 | 2 | 1500 | 140 | 8.7 | 7.8 | 550 | 3 | 13.8 |
| DD4-34 | 14,350 | 6.77 | 24,340 | 3 | 2250 | 210 | 13.1 | 11.7 | 550 | 4.5 | 20.7 |
| DD4-44 | 19,140 | 9.03 | 32,550 | 4 | 3000 | 280 | 17.5 | 15.7 | 550 | 6.0 | 27.6 |
| DD4-54 | 23,920 | 11.28 | 40,680 | 5 | 3750 | 350 | 21.8 | 19.6 | 550 | 7.5 | 34.6 |
| DD4-64 | 28,700 | 13.54 | 48,780 | 6 | 4500 | 420 | 26.2 | 23.5 | 550 | 9.0 | 41.4 |
| DD4-26 | 6,450 | 3.05 | 10,920 | 2 | 1500 | 140 | 8.7 | 7.8 | 180 | 1.6 | 4.2 |
| DD4-36 | 9,670 | 4.58 | 16,430 | 3 | 2250 | 210 | 13.1 | 11.7 | 180 | 2.4 | 6.3 |
| DD4-46 | 12,900 | 6.08 | 21,940 | 4 | 3000 | 280 | 17.5 | 15.7 | 180 | 3.2 | 8.4 |
| DD4-56 | 16,120 | 7.60 | 27,350 | 5 | 3750 | 350 | 21.8 | 19.6 | 180 | 4.0 | 10.5 |
| DD4-66 | 19,340 | 9.13 | 32,860 | 6 | 4500 | 420 | 26.2 | 23.5 | 180 | 4.8 | 12.6 |
| DD4-28-LN | 4,420 | 2.08 | 7,480 | 2 | 1500 | 140 | 8.7 | 7.8 | 90 | 1.2 | 2.2 |
| DD4-38-LN | 6,630 | 3.12 | 11,230 | 3 | 2250 | 210 | 13.1 | 11.7 | 90 | 1.8 | 3.3 |
| DD4-48-LN | 8,840 | 4.16 | 14,980 | 4 | 3000 | 280 | 17.5 | 15.7 | 90 | 2.4 | 4.4 |
| DD4-58-LN | 11,050 | 5.20 | 18,720 | 5 | 3750 | 350 | 21.8 | 19.6 | 90 | 3.0 | 5.5 |
| DD4-68-LN | 13,260 | 6.24 | 22,460 | 6 | 4500 | 420 | 26.2 | 23.5 | 90 | 3.6 | 6.6 |
| DD4-28-DS | 2,810 | 1.32 | 4,780 | 2 | 1500 | 140 | 8.7 | 7.8 | 90 | 0.90 | - |
| DD4-38-DS | 4,210 | 1.99 | 7,180 | 3 | 2250 | 210 | 13.1 | 11.7 | 90 | 1.35 | - |
| DD4-48-DS | 5,620 | 2.65 | 9,570 | 4 | 3000 | 280 | 17.5 | 15.7 | 90 | 1.80 | - |
| DD4-58-DS | 7,020 | 3.32 | 11,960 | 5 | 3750 | 350 | 21.8 | 19.6 | 90 | 2.25 | - |
| DD4-68-DS | 8,420 | 3.97 | 14,350 | 6 | 4500 | 420 | 26.2 | 23.5 | 90 | 2.70 | - |

The above values are typical currents and may vary depending on the type of motor used.

Condenser selection procedure

A. Capacity Selection

| MODEL | BASIC CAPACITY R22 | | | |
|------------------------------|--------------------|-----------|---------------|---------|
| | Btu/h 30°FAT | kW 17°CAT | Kcal/h 17°CAT | |
| INDUSTRIAL 1420 r.p.m. | DD4-24 | 215,250 | 64.2 | 55,200 |
| | DD4-34 | 322,850 | 96.3 | 82,850 |
| | DD4-44 | 430,500 | 128.4 | 110,400 |
| | DD4-54 | 547,600 | 160.6 | 138,050 |
| | DD4-64 | 651,000 | 194.3 | 167,000 |
| COMMERCIAL 960 r.p.m. | DD4-26 | 162,750 | 48.6 | 41,800 |
| | DD4-36 | 244,150 | 72.8 | 62,650 |
| | DD4-46 | 325,500 | 97.1 | 83,550 |
| | DD4-56 | 406,900 | 121.5 | 104,350 |
| | DD4-66 | 488,250 | 145.6 | 125,250 |
| RESIDENTIAL 720 r.p.m. | DD4-28-LN | 126,100 | 37.6 | 32,300 |
| | DD4-38-LN | 191,500 | 57.1 | 49,150 |
| | DD4-48-LN | 259,450 | 77.4 | 66,800 |
| | DD4-58-LN | 318,250 | 94.9 | 81,650 |
| | DD4-68-LN | 383,250 | 114.5 | 98,402 |
| VERY LOW NOISE 460 r.p.m. | DD4-28-DS | 82,650 | 24.6 | 21,150 |
| | DD4-38-DS | 124,300 | 37.0 | 31,650 |
| | DD4-48-DS | 165,500 | 49.3 | 42,400 |
| | DD4-58-DS | 206,850 | 61.6 | 52,950 |
| | DD4-68-DS | 248,850 | 73.9 | 63,500 |

| TD°F | 15 | 20 | 25 | 30 | 35 | TD°C | 10 | 12 | 15 | 17 | 20 |
|--------|-----|------|------|-----|------|--------|------|------|------|-----|------|
| Factor | 0.5 | 0.67 | 0.84 | 1.0 | 1.17 | Factor | 0.59 | 0.71 | 0.88 | 1.0 | 1.18 |

Refrigerant Factors. R12 multiply by 0.95
R502 multiply by 0.97

B. Type of Application (Fan Load Requirements)

Units Available

| Very Low Noise 460 rpm | Residential 720 rpm | Commercial 960 rpm | Industrial 1420 rpm |
|---------------------------|------------------------|-----------------------|------------------------|
| 8-DS | 8-LN | 6 | 4 |

Free field sound pressure levels dB (2×10^{-5} N/M²) 10m radially horizontal from unit

| MODEL | FREQUENCY BANDS | | | | | | | | dBA | NC | NR |
|-----------------------------|-----------------|-----|-----|-----|----|----|----|----|-----|----|----|
| | 63 | 125 | 250 | 500 | 1K | 2K | 4K | 8K | | | |
| DD4-28-DS VERY LOW NOISE | 42 | 39 | 37 | 32 | 28 | 20 | 15 | 10 | 33 | 27 | 28 |
| DD4-28-LN RESIDENTIAL | 49 | 49 | 47 | 44 | 38 | 33 | 24 | 18 | 45 | 39 | 40 |
| DD4-26 COMMERCIAL | 54 | 55 | 56 | 52 | 47 | 37 | 27 | 25 | 53 | 48 | 49 |
| DD4-24 INDUSTRIAL | 62 | 65 | 67 | 62 | 66 | 49 | 35 | 32 | 63 | 60 | 60 |

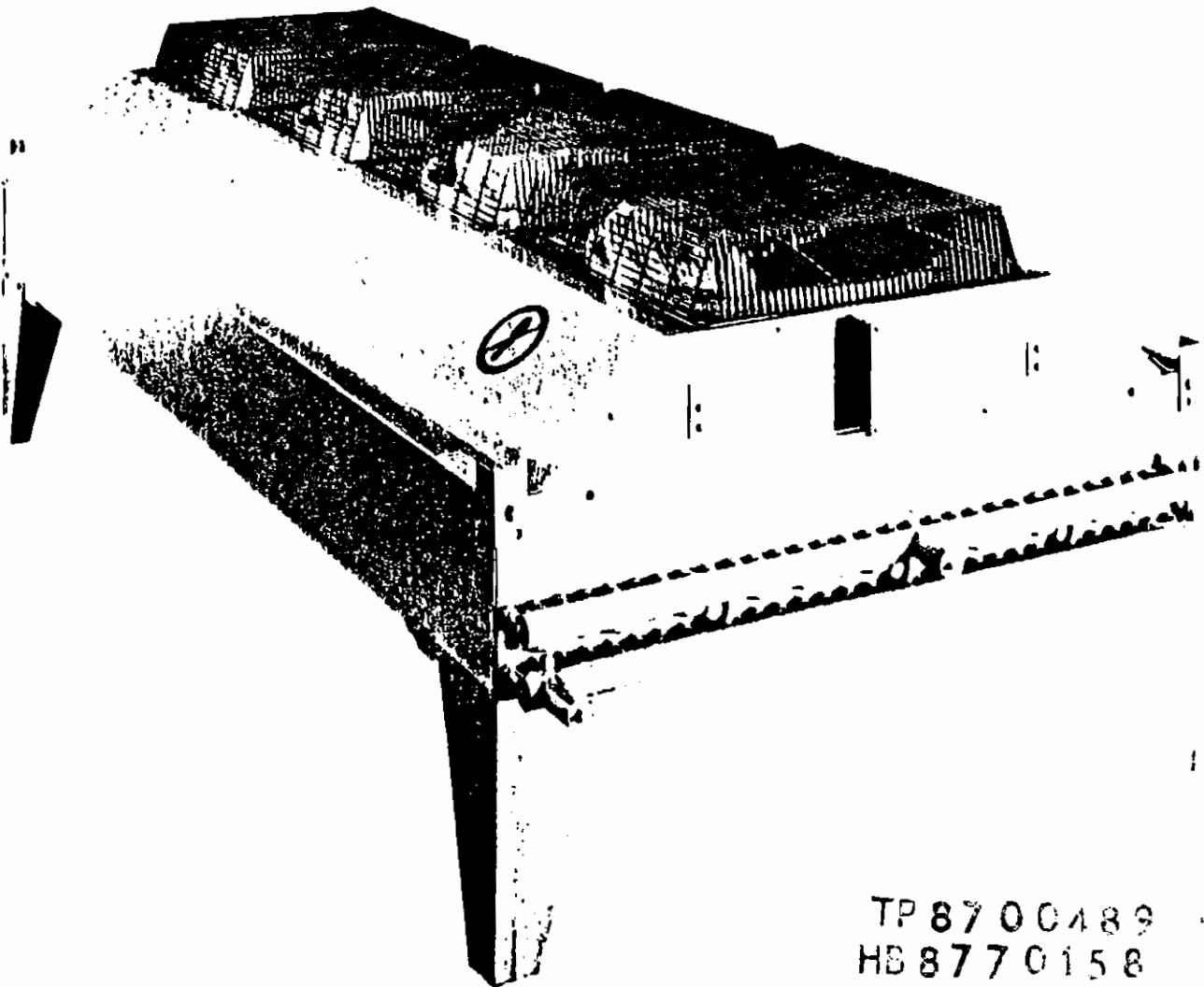
Correction Factors (Apply to frequency bands only).

| | | | | | | | | | | |
|-------------------|---|----|----|----|----|-----------------|----|----|-----|-----|
| 1) Number of fans | 2 | 3 | 4 | 5 | 6 | 2) Distance M | 10 | 20 | 40 | 80 |
| Variation in dB | 0 | +2 | +3 | +4 | +5 | Variation in dB | 0 | -6 | -12 | -18 |

searle

82,000-651,000 Btu/h
24.6-194.3 kW
21,000-167,000 Kcal/h

DD4 Air-cooled Condensers



TP 87 00489
HB 877 0158

A flexible range of standard direct driven condensers.

Offering

- Motor speed options 460: 720: 960: 1420 r.p.m.
- Refrigerant 12, 22, 502; Water and Glycol Dry Cooling Coils.
- Multicircuiting and Sub-cooling options.
- Energy saving Head Pressure and Motor speed control options.
- Horizontal or Vertical airflow, Compressor Housings.
- Aluminium, Vinyl coated, copper and electro-tinned fins.

LONDON BOROUGH OF CAMDEN
TOWN AND COUNTRY PLANNING ACTS
21 AUG 1997
PLANS APPROVED
~~NOT APPROVED~~
ON BEHALF OF THE COUNCIL