



HCT/MAR HFT/MAR

HCT/MAR: Robust cased axial fans for fitting between ducts, for marine and naval applications

HFT/MAR: Cased axial fans for start of duct, very tough for marine and naval applications



HCT/MAR



HFT/MAR

Circular axial fans with two flanges (HFT) or long cased axial fans for fitting between ducts (HCT), for operating in marine environments, fitted with motors suitable for marine service

Fan:

- HFT/MAR: Support ring with two flanges made from highly robust hot galvanised sheet steel
- HCT/MAR: Tubular hot-galvanised casing in sheet steel of great strength, to fit between ducts
- Impeller made from cast aluminium
- Incorporates with inspection hatch (HCT)
- Airflow direction from motor to impeller

Motor:

- Motors for class F marine service, with ball bearings, IP55 protection, complying with classification for non-essential naval service.
- IE3 efficiency for 7.5kW and larger motors. Except single-phase, 2 speed and 8 pole motors

- Three phase, 50Hz, 230/400V motors up to and including 4kW. 400/690V over 4kW
- Max. air temperature to transport: -20°C+ 60°C

Finish:

- Hot galvanised anticorrosive

On request:

- Made from stainless steel
- Special windings for different electrical supplies and frequencies
- ATEX construction for different categories
- Built-in motors with PTC
- Marine motors for naval applications with certification for essential service by various classifying societies (BV, DNV, LR)
- IE2 and IE3 efficiency motors assembled on any unit

The marine motors used may be certified by most international marine classification bodies:

ABS: American Bureau of Shipping

BV: Bureau Veritas

CCS: China Classification Societies

CR: China Corporation Register of Shipping

DNV: Det Norske Veritas

GL: Germanischer Lloyd

KR: Korean Register of Shipping

LR: Lloyd's Register of Shipping

NK: Nippon Kaiji Kyokai

RINA: Registro Italiano Navale

RS: Russian Maritime Register of Shipping

Order code

HCT/MAR — 56 — 4T — 1,5

HCT/MAR: Robust cased axial fans for marine and naval applications
HFT/MAR: Cased axial fans for marine and naval applications

Impeller diameter (cm)

Number of motor pole
2=2900 r/min. 50 Hz
4=1400 r/min. 50 Hz
6=900 r/min. 50 Hz

T=Three-phase Motor power (HP)

Technical characteristics

| Model | Speed (r/min) | Maximum current admissible (A) | | | Installed power (kW) | Maximum airflow (m³/h) | Sound pressure level dB(A) | Approx. weight with motor (Kg) | |
|----------------------------|---------------|--------------------------------|------|------|----------------------|------------------------|----------------------------|--------------------------------|---------|
| | | 230V | 400V | 690V | | | | HCT/MAR | HFT/MAR |
| HCT/MAR 35-2T | 2710 | 1.92 | 1.11 | | 0.37 | 5750 | 77 | 13 | |
| HCT/MAR 35-4T | 1320 | 0.65 | 0.38 | | 0.09 | 3100 | 59 | 12 | |
| HCT/MAR 40-2T-1.5 | 2860 | 4.20 | 2.40 | | 1.10 | 8800 | 84 | 27 | |
| HCT/MAR 40-4T-0.33 | 1350 | 1.66 | 0.96 | | 0.25 | 5150 | 64 | 21 | |
| HCT/MAR 45-2T-2 | 2770 | 5.44 | 3.13 | | 1.50 | 10650 | 86 | 30 | |
| HCT/MAR 45-2T-3 | 2885 | 7.77 | 4.47 | | 2.20 | 12750 | 88 | 33 | |
| HCT/MAR 45-4T-0.5 | 1370 | 2.02 | 1.17 | | 0.37 | 7100 | 68 | 25 | |
| HCT/MAR 50-4T-0.75 | 1380 | 2.92 | 1.69 | | 0.55 | 10400 | 70 | 27 | |
| HCT/MAR HFT/MAR 56-4T-0.75 | 1380 | 2.92 | 1.69 | | 0.55 | 11050 | 72 | 32 | 22 |
| HCT/MAR HFT/MAR 56-4T-1 | 1410 | 3.10 | 1.79 | | 0.75 | 12950 | 73 | 34 | 23 |

Technical characteristics

| Model | Speed (r/min) | Maximum current admissible (A) | | | Installed power (kW) | Maximum airflow (m³/h) | Sound pres- sure level dB(A) | Approx. weight with motor (Kg) | |
|-------------------------------|------------------|-----------------------------------|-------|-------|----------------------------|------------------------------|------------------------------------|-----------------------------------|---------|
| | | 230V | 400V | 690V | | | | HCT/MAR | HFT/MAR |
| HCT/MAR HFT/MAR 56-4T-1.5 | 1400 | 4.03 | 2.32 | | 1.10 | 14000 | 74 | 36 | 27 |
| HCT/MAR HFT/MAR 56-4T-2 | 1430 | 5.96 | 3.44 | | 1.50 | 15300 | 75 | 39 | 29 |
| HCT/MAR HFT/MAR 56-6T-0.33 | 900 | 1.51 | 0.87 | | 0.25 | 8500 | 61 | 31 | 19 |
| HCT/MAR HFT/MAR 56-6T-0.5 | 900 | 2.24 | 1.30 | | 0.37 | 9300 | 61 | 34 | 21 |
| HCT/MAR HFT/MAR 56-6T-0.75 | 900 | 2.99 | 1.73 | | 0.55 | 10000 | 62 | 34 | 23 |
| HCT/MAR HFT/MAR 63-4T-1 | 1410 | 3.10 | 1.79 | | 0.75 | 14150 | 73 | 43 | 29 |
| HCT/MAR HFT/MAR 63-4T-1.5 | 1400 | 4.03 | 2.32 | | 1.10 | 17000 | 74 | 45 | 32 |
| HCT/MAR HFT/MAR 63-4T-2 | 1430 | 5.96 | 3.44 | | 1.50 | 18900 | 75 | 48 | 35 |
| HCT/MAR HFT/MAR 63-4T-3 | 1445 | 8.36 | 4.83 | | 2.20 | 22100 | 76 | 53 | 43 |
| HCT/MAR HFT/MAR 63-4T-4 | 1445 | 10.96 | 6.33 | | 3.00 | 25400 | 77 | 56 | 79 |
| HCT/MAR HFT/MAR 63-6T-0.5 | 900 | 2.24 | 1.30 | | 0.37 | 12150 | 64 | 43 | 27 |
| HCT/MAR HFT/MAR 63-6T-0.75 | 900 | 2.99 | 1.73 | | 0.55 | 12750 | 65 | 43 | 29 |
| HCT/MAR HFT/MAR 63-6T-1 | 945 | 3.90 | 2.20 | | 0.75 | 13800 | 66 | 45 | 35 |
| HCT/MAR HFT/MAR 71-4T-1.5 | 1400 | 4.03 | 2.32 | | 1.10 | 19750 | 78 | 51 | 35 |
| HCT/MAR HFT/MAR 71-4T-2 | 1430 | 5.96 | 3.44 | | 1.50 | 21100 | 79 | 54 | 38 |
| HCT/MAR HFT/MAR 71-4T-3 | 1445 | 8.36 | 4.83 | | 2.20 | 23950 | 81 | 60 | 47 |
| HCT/MAR HFT/MAR 71-4T-4 | 1445 | 10.96 | 6.33 | | 3.00 | 29400 | 82 | 63 | 49 |
| HCT/MAR HFT/MAR 71-6T-0.75 | 900 | 2.99 | 1.73 | | 0.55 | 15150 | 67 | 49 | 31 |
| HCT/MAR HFT/MAR 71-6T-1 | 945 | 3.90 | 2.20 | | 0.75 | 17250 | 68 | 51 | 38 |
| HCT/MAR HFT/MAR 71-6T-1.5 | 945 | 4.88 | 2.82 | | 1.10 | 20950 | 69 | 54 | 40 |
| HCT/MAR HFT/MAR 80-4T-3 | 1445 | 8.36 | 4.83 | | 2.20 | 28000 | 82 | 69 | 55 |
| HCT/MAR HFT/MAR 80-4T-4 | 1445 | 10.96 | 6.33 | | 3.00 | 32700 | 83 | 72 | 57 |
| HCT/MAR HFT/MAR 80-4T-5.5 | 1440 | 14.10 | 8.12 | | 4.00 | 37200 | 84 | 74 | 62 |
| HCT/MAR HFT/MAR 80-6T-1 | 945 | 3.90 | 2.20 | | 0.75 | 20600 | 71 | 60 | 46 |
| HCT/MAR HFT/MAR 80-6T-1.5 | 945 | 4.88 | 2.82 | | 1.10 | 24250 | 72 | 63 | 48 |
| HCT/MAR HFT/MAR 80-6T-2 | 955 | 6.42 | 3.71 | | 1.50 | 28000 | 73 | 71 | 54 |
| HCT/MAR HFT/MAR 80-6T-3 | 955 | 9.30 | 5.30 | | 2.20 | 32500 | 74 | 74 | 59 |
| HCT/MAR HFT/MAR 90-4T-4 | 1445 | 10.96 | 6.33 | | 3.00 | 37750 | 87 | 87 | 64 |
| HCT/MAR HFT/MAR 90-4T-5.5 | 1440 | 14.10 | 8.12 | | 4.00 | 41850 | 89 | 90 | 69 |
| HCT/MAR HFT/MAR 90-4T-7.5 | 1440 | | 11.60 | 6.72 | 5.50 | 47000 | 91 | 103 | 85 |
| HCT/MAR HFT/MAR 90-4T-10 IE3 | 1465 | | 13.90 | 8.06 | 7.50 | 53000 | 92 | 127 | 112 |
| HCT/MAR HFT/MAR 90-6T-2 | 955 | 6.42 | 3.71 | | 1.50 | 30000 | 77 | 86 | 61 |
| HCT/MAR HFT/MAR 90-6T-3 | 955 | 9.30 | 5.30 | | 2.20 | 35000 | 78 | 90 | 66 |
| HCT/MAR HFT/MAR 90-6T-4 | 960 | 12.70 | 7.30 | | 3.00 | 40000 | 79 | 102 | 90 |
| HCT/MAR HFT/MAR 100-4T-7.5 | 1440 | | 11.60 | 6.72 | 5.50 | 52500 | 92 | 115 | 93 |
| HCT/MAR HFT/MAR 100-4T-10 IE3 | 1465 | | 13.90 | 8.06 | 7.50 | 58500 | 93 | 138 | 120 |
| HCT/MAR HFT/MAR 100-4T-15 IE3 | 1470 | | 20.90 | 12.10 | 11.00 | 68000 | 94 | 184 | 152 |
| HCT/MAR HFT/MAR 100-4T-20 IE3 | 1465 | | 27.90 | 16.20 | 15.00 | 71850 | 95 | 195 | 163 |
| HCT/MAR HFT/MAR 100-6T-3 | 955 | 9.30 | 5.30 | | 2.20 | 40500 | 82 | 101 | 74 |
| HCT/MAR HFT/MAR 100-6T-4 | 960 | 12.70 | 7.30 | | 3.00 | 46950 | 83 | 113 | 98 |
| HCT/MAR HFT/MAR 100-6T-5.5 | 960 | 16.50 | 9.46 | | 4.00 | 52000 | 84 | 120 | 106 |

Acoustic features

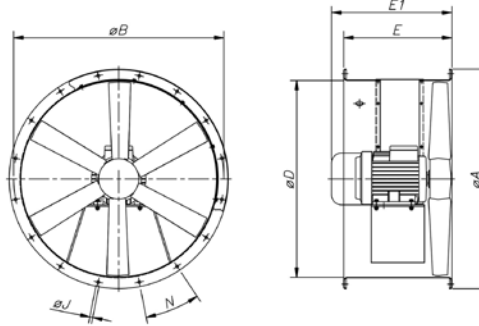
The specified values are determined according to free field measurements of pressure and sound levels in dB(A) at an equivalent distance of twice the fan's span plus the impeller's diameter, with a minimum of 1.5 m.

Sound power Lw(A) spectrum in dB(A) via frequency band in Hz.

| Model | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Model | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|------------|----|-----|-----|-----|------|------|------|------|------------|----|-----|-----|-----|------|------|------|------|
| 35-2T | 48 | 63 | 82 | 81 | 82 | 81 | 76 | 67 | 71-4T-4 | 59 | 79 | 87 | 92 | 94 | 91 | 84 | 73 |
| 35-4T | 30 | 45 | 64 | 63 | 64 | 63 | 58 | 49 | 71-6T-0.75 | 44 | 64 | 72 | 77 | 79 | 76 | 69 | 58 |
| 40-2T-1.5 | 55 | 70 | 89 | 88 | 89 | 88 | 83 | 74 | 71-6T-1 | 45 | 65 | 73 | 78 | 80 | 77 | 70 | 59 |
| 40-4T-0.33 | 35 | 50 | 69 | 68 | 69 | 68 | 63 | 54 | 71-6T-1.5 | 46 | 66 | 74 | 79 | 81 | 78 | 71 | 60 |
| 45-2T-2 | 51 | 68 | 80 | 88 | 93 | 93 | 89 | 82 | 80-4T-3 | 59 | 79 | 87 | 92 | 94 | 91 | 84 | 73 |
| 45-2T-3 | 53 | 70 | 82 | 90 | 95 | 95 | 91 | 84 | 80-4T-4 | 60 | 80 | 88 | 93 | 95 | 92 | 85 | 74 |
| 45-4T-0.5 | 33 | 50 | 62 | 70 | 75 | 75 | 71 | 64 | 80-4T-5.5 | 61 | 81 | 89 | 94 | 96 | 93 | 86 | 75 |
| 50-4T-0.75 | 37 | 54 | 67 | 74 | 79 | 80 | 75 | 68 | 80-6T-1 | 48 | 68 | 76 | 81 | 83 | 80 | 73 | 62 |
| 56-4T-0.75 | 47 | 67 | 75 | 80 | 82 | 79 | 72 | 61 | 80-6T-1.5 | 49 | 69 | 77 | 82 | 84 | 81 | 74 | 63 |
| 56-4T-1 | 48 | 68 | 76 | 81 | 83 | 80 | 73 | 62 | 80-6T-2 | 50 | 70 | 78 | 83 | 85 | 82 | 75 | 64 |
| 56-4T-1.5 | 49 | 69 | 77 | 82 | 84 | 81 | 74 | 63 | 80-6T-3 | 51 | 71 | 79 | 84 | 86 | 83 | 76 | 65 |
| 56-4T-2 | 50 | 70 | 78 | 83 | 85 | 82 | 75 | 64 | 90-4T-4 | 65 | 86 | 93 | 98 | 101 | 97 | 90 | 79 |
| 56-6T-0.33 | 36 | 56 | 64 | 69 | 71 | 68 | 61 | 50 | 90-4T-5.5 | 67 | 88 | 95 | 100 | 103 | 99 | 92 | 81 |
| 56-6T-0.5 | 36 | 56 | 64 | 69 | 71 | 68 | 61 | 50 | 90-4T-7.5 | 69 | 90 | 97 | 102 | 105 | 101 | 94 | 83 |
| 56-6T-0.75 | 37 | 57 | 65 | 70 | 72 | 69 | 62 | 51 | 90-4T-10 | 70 | 91 | 98 | 103 | 106 | 102 | 95 | 84 |
| 63-4T-1 | 50 | 70 | 78 | 83 | 85 | 82 | 75 | 64 | 90-6T-2 | 55 | 76 | 83 | 88 | 91 | 87 | 80 | 69 |
| 63-4T-1.5 | 51 | 71 | 79 | 84 | 86 | 83 | 76 | 65 | 90-6T-3 | 56 | 77 | 84 | 89 | 92 | 88 | 81 | 70 |
| 63-4T-2 | 52 | 72 | 80 | 85 | 87 | 84 | 77 | 66 | 90-6T-4 | 57 | 78 | 85 | 90 | 93 | 89 | 82 | 71 |
| 63-4T-3 | 53 | 73 | 81 | 86 | 88 | 85 | 78 | 67 | 100-4T-7.5 | 72 | 92 | 100 | 105 | 107 | 104 | 97 | 86 |
| 63-4T-4 | 54 | 74 | 82 | 87 | 89 | 86 | 79 | 68 | 100-4T-10 | 73 | 93 | 101 | 106 | 108 | 105 | 98 | 87 |
| 63-6T-0.5 | 41 | 61 | 69 | 74 | 76 | 73 | 66 | 55 | 100-4T-15 | 74 | 94 | 102 | 107 | 109 | 106 | 99 | 88 |
| 63-6T-0.75 | 42 | 62 | 70 | 75 | 77 | 74 | 67 | 56 | 100-4T-20 | 75 | 95 | 103 | 108 | 110 | 107 | 100 | 89 |
| 63-6T-1 | 43 | 63 | 71 | 76 | 78 | 75 | 68 | 57 | 100-6T-3 | 62 | 82 | 90 | 95 | 97 | 94 | 87 | 76 |
| 71-4T-1.5 | 55 | 75 | 83 | 88 | 90 | 87 | 80 | 69 | 100-6T-4 | 63 | 83 | 91 | 96 | 98 | 95 | 88 | 77 |
| 71-4T-2 | 56 | 76 | 84 | 89 | 91 | 88 | 81 | 70 | 100-6T-5.5 | 64 | 84 | 92 | 97 | 99 | 96 | 89 | 78 |
| 71-4T-3 | 58 | 78 | 86 | 91 | 93 | 90 | 83 | 72 | | | | | | | | | |

Dimensions in mm

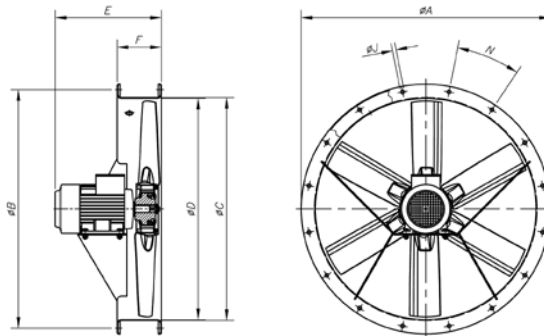
HCT/MAR



| Model | ØA | ØB | ØD | E | E1 | ØJ | N |
|--------------------|-----|-----|-----|-----|----|----|-----------|
| HCT/MAR-35-2T | 425 | 395 | 355 | 280 | - | 10 | 8x45° |
| HCT/MAR-35-4T | 425 | 395 | 355 | 280 | - | 10 | 8x45° |
| HCT/MAR-40-2T-1.5 | 490 | 450 | 410 | 400 | - | 12 | 8x45° |
| HCT/MAR-40-4T-0.33 | 490 | 450 | 410 | 400 | - | 12 | 8x45° |
| HCT/MAR-45-2T-2 | 540 | 500 | 460 | 400 | - | 12 | 8x45° |
| HCT/MAR-45-2T-3 | 540 | 500 | 460 | 400 | - | 12 | 8x45° |
| HCT/MAR-45-4T-0.5 | 540 | 500 | 460 | 400 | - | 12 | 8x45° |
| HCT/MAR-50-4T-0.75 | 600 | 560 | 514 | 400 | - | 12 | 12x30° |
| HCT/MAR-56-4T-0.75 | 660 | 620 | 560 | 400 | - | 12 | 12x30° |
| HCT/MAR-56-4T-1 | 660 | 620 | 560 | 400 | - | 12 | 12x30° |
| HCT/MAR-56-4T-1.5 | 660 | 620 | 560 | 400 | - | 12 | 12x30° |
| HCT/MAR-56-4T-2 | 660 | 620 | 560 | 400 | - | 12 | 12x30° |
| HCT/MAR-56-6T-0.33 | 660 | 620 | 560 | 400 | - | 12 | 12x30° |
| HCT/MAR-56-6T-0.5 | 660 | 620 | 560 | 400 | - | 12 | 12x30° |
| HCT/MAR-56-6T-0.75 | 660 | 620 | 560 | 400 | - | 12 | 12x30° |
| HCT/MAR-63-4T-1 | 730 | 690 | 640 | 400 | - | 12 | 12x30° |
| HCT/MAR-63-4T-1.5 | 730 | 690 | 640 | 400 | - | 12 | 12x30° |
| HCT/MAR-63-4T-2 | 730 | 690 | 640 | 400 | - | 12 | 12x30° |
| HCT/MAR-63-4T-3 | 730 | 690 | 640 | 500 | - | 12 | 12x30° |
| HCT/MAR-63-4T-4 | 730 | 690 | 640 | 500 | - | 12 | 12x30° |
| HCT/MAR-63-6T-0.5 | 730 | 690 | 640 | 400 | - | 12 | 12x30° |
| HCT/MAR-63-6T-0.75 | 730 | 690 | 640 | 400 | - | 12 | 12x30° |
| HCT/MAR-63-6T-1 | 730 | 690 | 640 | 400 | - | 12 | 12x30° |
| HCT/MAR-71-4T-1.5 | 810 | 770 | 710 | 430 | - | 12 | 16x22°30' |
| HCT/MAR-71-4T-2 | 810 | 770 | 710 | 430 | - | 12 | 16x22°30' |
| HCT/MAR-71-4T-3 | 810 | 770 | 710 | 500 | - | 12 | 16x22°30' |

| Model | ØA | ØB | ØD | E | E1 | ØJ | N |
|--------------------|------|------|------|-----|----|----|-----------|
| HCT/MAR-71-4T-4 | 810 | 770 | 710 | 500 | - | 12 | 16x22°30' |
| HCT/MAR-71-6T-0.75 | 810 | 770 | 710 | 430 | - | 12 | 16x22°30' |
| HCT/MAR-71-6T-1 | 810 | 770 | 710 | 500 | - | 12 | 16x22°30' |
| HCT/MAR-71-6T-1.5 | 810 | 770 | 710 | 500 | - | 12 | 16x22°30' |
| HCT/MAR-80-4T-3 | 900 | 860 | 800 | 500 | - | 12 | 16x22°30' |
| HCT/MAR-80-4T-4 | 900 | 860 | 800 | 500 | - | 12 | 16x22°30' |
| HCT/MAR-80-4T-5.5 | 900 | 860 | 800 | 500 | - | 12 | 16x22°30' |
| HCT/MAR-80-6T-1 | 900 | 860 | 800 | 500 | - | 12 | 16x22°30' |
| HCT/MAR-80-6T-1.5 | 900 | 860 | 800 | 500 | - | 12 | 16x22°30' |
| HCT/MAR-80-6T-2 | 900 | 860 | 800 | 500 | - | 12 | 16x22°30' |
| HCT/MAR-80-6T-3 | 900 | 860 | 800 | 500 | - | 12 | 16x22°30' |
| HCT/MAR-80-4T-4 | 1015 | 970 | 900 | 600 | - | 15 | 16x22°30' |
| HCT/MAR-90-4T-5.5 | 1015 | 970 | 900 | 600 | - | 15 | 16x22°30' |
| HCT/MAR-90-4T-7.5 | 1015 | 970 | 900 | 600 | - | 15 | 16x22°30' |
| HCT/MAR-90-4T-10 | 1015 | 970 | 900 | 600 | - | 15 | 16x22°30' |
| HCT/MAR-90-6T-2 | 1015 | 970 | 900 | 600 | - | 15 | 16x22°30' |
| HCT/MAR-90-6T-3 | 1015 | 970 | 900 | 600 | - | 15 | 16x22°30' |
| HCT/MAR-90-6T-4 | 1015 | 970 | 900 | 600 | - | 15 | 16x22°30' |
| HCT/MAR-100-4T-7.5 | 1115 | 1070 | 1000 | 600 | - | 15 | 16x22°30' |
| HCT/MAR-100-4T-10 | 1115 | 1070 | 1000 | 600 | - | 15 | 16x22°30' |
| HCT/MAR-100-4T-15 | 1115 | 1070 | 1000 | 700 | - | 15 | 16x22°30' |
| HCT/MAR-100-4T-20 | 1115 | 1070 | 1000 | 700 | - | 15 | 16x22°30' |
| HCT/MAR-100-6T-3 | 1115 | 1070 | 1000 | 600 | - | 15 | 16x22°30' |
| HCT/MAR-100-6T-4 | 1115 | 1070 | 1000 | 600 | - | 15 | 16x22°30' |
| HCT/MAR-100-6T-5.5 | 1115 | 1070 | 1000 | 600 | - | 15 | 16x22°30' |

HFT/MAR



| Model | øA | øB | øC | øD | E | | | | | | | | | | | F | øJ | N | |
|---------------|------|------|------|------|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|--------|
| | | | | | 0.33 | 0.5 | 0.75 | 1 | 1.5 | 2 | 3 | 4 | 5.5 | 7.5 | 10 | | | | 15 |
| HFT/MAR-56-4 | 660 | 620 | 564 | 560 | - | - | 344 | 344 | 376 | 376 | - | - | - | - | - | - | 150 | 12 | 12x30° |
| HFT/MAR-56-6 | 660 | 620 | 564 | 560 | 310 | 344 | 344 | - | - | - | - | - | - | - | - | 150 | 12 | 12x30° | |
| HFT/MAR-63-4 | 730 | 690 | 645 | 640 | - | - | - | 325 | 398 | 398 | 430 | 430 | - | - | - | 150 | 12 | 12x30° | |
| HFT/MAR-63-6 | 730 | 690 | 645 | 640 | - | 325 | 325 | 398 | - | - | - | - | - | - | - | 150 | 12 | 12x30° | |
| HFT/MAR-71-4 | 810 | 770 | 715 | 710 | - | - | - | 400 | 400 | 440 | 440 | - | - | - | - | 150 | 12 | 16x22°30' | |
| HFT/MAR-71-6 | 810 | 770 | 715 | 710 | - | - | 325 | 400 | 400 | - | - | - | - | - | - | 150 | 12 | 16x22°30' | |
| HFT/MAR-80-4 | 900 | 860 | 805 | 800 | - | - | - | - | - | 425 | 425 | 445 | - | - | - | 180 | 12 | 16x22°30' | |
| HFT/MAR-80-6 | 900 | 860 | 805 | 800 | - | - | - | 390 | 390 | 425 | 445 | - | - | - | - | 180 | 12 | 16x22°30' | |
| HFT/MAR-90-4 | 1015 | 970 | 906 | 900 | - | - | - | - | - | - | 430 | 440 | 470 | 470 | - | 180 | 15 | 16x22°30' | |
| HFT/MAR-90-6 | 1015 | 970 | 906 | 900 | - | - | - | - | 430 | 440 | 470 | - | - | - | - | 180 | 15 | 16x22°30' | |
| HFT/MAR-100-4 | 1115 | 1070 | 1006 | 1000 | - | - | - | - | - | - | - | 485 | 485 | 590 | 590 | 200 | 15 | 16x22°30' | |
| HFT/MAR-100-6 | 1115 | 1070 | 1006 | 1000 | - | - | - | - | - | 440 | 485 | 485 | - | - | - | 200 | 15 | 16x22°30' | |

Characteristic Curves

See page 143