

FC SERIES

IN-LINE ELECTRIC PUMPS

In-line electric pumps with cast iron pump body, AISI 316L stainless steel impeller entirely welded using laser technology (for models with 40, 50 and 65 nominal port diameter). Suitable for handling hot or cold moderately aggressive liquids.

APPLICATIONS

- Circulation of hot and cold water for heating and conditioning systems.
- Water pumping in the civil, industrial and agricultural sectors.
- Water supply systems in rural applications.

AVAILABLE MODELS

- **FCE:** close-coupled with special motor shaft extension.
- **FCS:** with stub shaft and standardised motor.

SPECIFICATIONS

- **Maximum delivery: 190 m³/h.**
- **Maximum head: 90 m.**
- Continuous duty.
- Pumped liquid **temperature: -20°C to 130°C.**
- **Maximum operating pressure: 12 bar (PN 12).**
- **Port nominal diameter: up to 100 mm.**
- **Impeller nominal diameter: up to 250 mm.**
- **Mechanical seal in compliance with (ex DIN 24960), lubricated by internal recirculation of pumped liquid.**
- **Flanged suction and delivery ports** (in compliance with EN 1092-2).
- **Bleed valve available on all models.**
- IP 55 protection.
- Class F insulation.
- 2- and 4-pole versions
- 50 and 60 Hz motor frequencies.
- **Version with HYDROVAR frequency converter (variable speed) available on request.**
- **For in-line twin pumps contact Lowara sales network.**

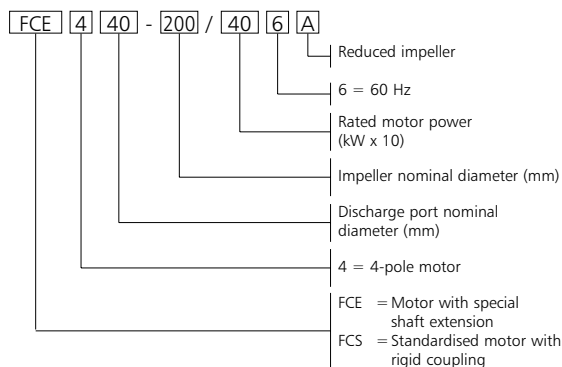


TABLE OF MATERIALS

| PART | MATERIAL |
|--|--|
| Pump body | 200 CAST IRON (UNI ISO 185) |
| Impeller | STAINLESS STEEL* (AISI 316L - DIN 1.4404) |
| Wear ring Counterwear ring Shaft | STAINLESS STEEL (AISI 316 - DIN 1.4571) |
| Seal housing | 200 CAST IRON (UNI ISO 185) |
| Adapter | 200 CAST IRON (UNI ISO 185)** |
| Mechanical seal | CERAMIC/CARBON/EPDM |
| O-Rings | EPDM |
| Fill/drain plugs | NICKEL-PLATED BRASS |
| Base (optional) | ALUMINIUM |

* Cast iron versions: DN 80 and DN 100
 ** Aluminium versions: 40/50 - 125 2/4 poles
 40/50 - 160 2/4 poles

IDENTIFICATION CODE



FCE SERIES ELECTRICAL SPECIFICATIONS OF MOTORS WITH SPECIAL SHAFT EXTENSION

THREE-PHASE 50 Hz 2 POLES MOTORS

| MOTOR TYPE | | | INPUT CURRENT | | | | DATA FOR 400 V 50 Hz | | | | | |
|------------|---------------|------------------------|----------------|----------------|----------------|----------------|----------------------|---------|------|------|----------|-------|
| kW | IEC SIZE * | CONSTRUCTION DESIGN | In (A) | | | | rpm | Is / In | n % | cosφ | Cn Nm | Cs/Cn |
| | | | Δ 220-240 V | Y 380-415 V | Δ 380-415 V | Y 660-690 V | | | | | | |
| 0.75 | 90R | B14 | 3.72 | 2.15 | - | - | 2915 | 8.23 | 77.7 | 0.65 | 2.45 | 5.20 |
| 1.1 | 90R | B14 | 4.52 | 2.61 | - | - | 2875 | 6.78 | 78.9 | 0.77 | 3.65 | 3.49 |
| 1.5 | 90R | B14 | 5.98 | 3.45 | - | - | 2875 | 7.04 | 80.1 | 0.78 | 4.98 | 3.83 |
| 2.2 | 90R | B14 | 8.71 | 5.03 | - | - | 2860 | 7.32 | 81.1 | 0.78 | 7.34 | 4.12 |
| 3 | 90 | B14 | 10.8 | 6.22 | - | - | 2845 | 6.81 | 80.4 | 0.87 | 10.1 | 3.00 |
| 4 | 112R | B14 | - | - | 8.14 | 4.70 | 2900 | 7.86 | 83.5 | 0.85 | 13.2 | 2.86 |
| 5.5 | 112 | B14 | - | - | 11.0 | 6.35 | 2910 | 7.71 | 84.5 | 0.85 | 18.0 | 2.66 |
| 7.5 | 112 | B14 | - | - | 14.6 | 8.43 | 2910 | 7.62 | 87.2 | 0.85 | 24.6 | 3.03 |
| 9.2 | 132 | B14 | - | - | 17.5 | 10.1 | 2925 | 8.72 | 86.3 | 0.88 | 30.0 | 3.33 |
| 11 | 132 | B14 | - | - | 21.2 | 12.2 | 2925 | 8.75 | 88.8 | 0.84 | 35.9 | 3.66 |
| 15 | 160 | B14 | - | - | 28.6 | 16.5 | 2940 | 8.56 | 85.3 | 0.89 | 48.7 | 3.10 |
| 18.5 | 160 | B14 | - | - | 34.2 | 19.7 | 2945 | 8.80 | 87.3 | 0.90 | 60.0 | 4.06 |
| 22 | 160 | B14 | - | - | 40.3 | 23.3 | 2945 | 8.61 | 89.5 | 0.88 | 71.2 | 4.79 |

* R = Reduced size of motor casing as compared to shaft extension and flange.

fce-mott-2p50_a_te

THREE-PHASE 50 Hz 4 POLES MOTORS

| MOTOR TYPE | | | INPUT CURRENT | | | | DATA FOR 400 V 50 Hz | | | | | |
|------------|---------------|------------------------|----------------|----------------|----------------|----------------|----------------------|---------|------|------|----------|-------|
| kW | IEC SIZE * | CONSTRUCTION DESIGN | In (A) | | | | rpm | Is / In | n % | cosφ | Cn Nm | Cs/Cn |
| | | | Δ 220-240 V | Y 380-415 V | Δ 380-415 V | Y 660-690 V | | | | | | |
| 0.25 | 71 | B5 | 1.71 | 0.99 | - | - | 1390 | 3.58 | 62.0 | 0.59 | 1.71 | 3.16 |
| 0.37 | 71 | B5 | 2.53 | 1.46 | - | - | 1370 | 3.39 | 61.4 | 0.60 | 2.57 | 3.40 |
| 0.55 | 90R | B5-B14 | 3.03 | 1.75 | - | - | 1390 | 3.95 | 68.2 | 0.67 | 3.77 | 2.45 |
| 0.75 | 90R | B5 | 4.04 | 2.33 | - | - | 1395 | 4.06 | 70.1 | 0.66 | 5.13 | 2.73 |
| 1.1 | 90 | B5 | 4.35 | 2.51 | - | - | 1415 | 4.65 | 78.0 | 0.81 | 7.42 | 2.15 |
| 1.5 | 90 | B5 | 5.85 | 3.38 | - | - | 1420 | 4.99 | 79.9 | 0.80 | 10.1 | 2.26 |
| 2.2 | 100 | B5 | 8.28 | 4.78 | - | - | 1410 | 5.53 | 81.4 | 0.82 | 14.9 | 2.52 |
| 3 | 100 | B5 | 11.0 | 6.37 | - | - | 1425 | 6.03 | 82.5 | 0.82 | 20.1 | 2.53 |
| 4 | 112 | B5 | - | - | 8.38 | 4.84 | 1440 | 5.81 | 84.8 | 0.81 | 26.5 | 2.50 |
| 5.5 | 132 | B14 | - | - | 11.3 | 6.52 | 1445 | 5.98 | 85.8 | 0.82 | 36.3 | 2.60 |
| 7.5 | 132 | B14 | - | - | 15.2 | 8.78 | 1450 | 6.70 | 88.1 | 0.81 | 49.3 | 3.17 |

* R = Reduced size of motor casing as compared to shaft extension and flange.

fce-mott-4p50_a_te

FCS SERIES STANDARD MOTOR ELECTRICAL SPECIFICATIONS

THREE-PHASE 50 Hz 2 POLES MOTORS

| MOTOR TYPE | | | INPUT CURRENT In (A) | | | | DATA FOR 400 V 50 Hz | | | | | |
|------------|---------------|------------------------|-------------------------|------|-----------|------|----------------------|---------|------|------|----------|-------|
| kW | IEC SIZE * | CONSTRUCTION DESIGN | 220-240 V | | 380-415 V | | rpm | Is / In | n % | cosφ | Cn Nm | Cs/Cn |
| | | | Δ | Y | Δ | Y | | | | | | |
| 0.75 | 80R | B5 | 3.50 | 2.02 | - | - | 2855 | 5.81 | 74.3 | 0.72 | 2.51 | 3.76 |
| 1.1 | 80 | B5 | 4.52 | 2.61 | - | - | 2875 | 6.78 | 78.9 | 0.77 | 3.65 | 3.49 |
| 1.5 | 90R | B5 | 5.98 | 3.45 | - | - | 2875 | 7.04 | 80.1 | 0.78 | 4.98 | 3.83 |
| 2.2 | 90R | B5 | 8.71 | 5.03 | - | - | 2860 | 7.32 | 81.1 | 0.78 | 7.34 | 4.12 |
| 3 | 100R | B5 | 10.8 | 6.22 | - | - | 2845 | 6.81 | 80.4 | 0.87 | 10.1 | 3.00 |
| 4 | 112R | B5 | - | - | 8.14 | 4.70 | 2900 | 7.86 | 83.5 | 0.85 | 13.2 | 2.86 |
| 5.5 | 132R | B5 | - | - | 11.0 | 6.35 | 2910 | 7.71 | 84.5 | 0.85 | 18.0 | 2.66 |
| 7.5 | 132R | B5 | - | - | 14.6 | 8.43 | 2910 | 7.62 | 87.2 | 0.85 | 24.6 | 3.03 |
| 11 | 160R | B5 | - | - | 21.2 | 12.2 | 2925 | 8.75 | 88.8 | 0.84 | 35.9 | 3.66 |
| 15 | 160 | B5 | - | - | 28.6 | 16.5 | 2940 | 8.56 | 85.3 | 0.89 | 48.7 | 3.10 |
| 18.5 | 160 | B5 | - | - | 34.2 | 19.7 | 2945 | 8.80 | 87.3 | 0.90 | 60.0 | 4.06 |
| 22 | 180R | B5 | - | - | 40.3 | 23.3 | 2945 | 8.61 | 89.5 | 0.88 | 71.2 | 4.79 |

* R = Reduced size of motor casing as compared to shaft extension and flange.

fcs-mott-2p50_a_te

THREE-PHASE 50 Hz 4 POLES MOTORS

| MOTOR TYPE | | | INPUT CURRENT In (A) | | | | DATA FOR 400 V 50 Hz | | | | | |
|------------|---------------|------------------------|-------------------------|------|-----------|------|----------------------|---------|------|------|----------|-------|
| kW | IEC SIZE * | CONSTRUCTION DESIGN | 220-240 V | | 380-415 V | | rpm | Is / In | n % | cosφ | Cn Nm | Cs/Cn |
| | | | Δ | Y | Δ | Y | | | | | | |
| 0.55 | 80 | B5 | 3.03 | 1.75 | - | - | 1390 | 3.95 | 68.2 | 0.67 | 3.77 | 2.45 |
| 0.75 | 80 | B5 | 4.04 | 2.33 | - | - | 1395 | 4.06 | 70.1 | 0.66 | 5.13 | 2.73 |
| 1.1 | 90 | B5 | 4.35 | 2.51 | - | - | 1415 | 4.65 | 78.0 | 0.81 | 7.42 | 2.15 |
| 1.5 | 90 | B5 | 5.85 | 3.38 | - | - | 1420 | 4.99 | 79.9 | 0.80 | 10.1 | 2.26 |
| 2.2 | 100 | B5 | 8.28 | 4.78 | - | - | 1410 | 5.53 | 81.4 | 0.82 | 14.9 | 2.52 |
| 3 | 100 | B5 | 11.0 | 6.37 | - | - | 1425 | 6.03 | 82.5 | 0.82 | 20.1 | 2.53 |
| 4 | 112 | B5 | - | - | 8.38 | 4.84 | 1440 | 5.81 | 84.8 | 0.81 | 26.5 | 2.50 |
| 5.5 | 132 | B5 | - | - | 11.3 | 6.52 | 1445 | 5.98 | 85.8 | 0.82 | 36.3 | 2.60 |
| 7.5 | 132 | B5 | - | - | 15.2 | 8.78 | 1450 | 6.7 | 88.1 | 0.81 | 49.3 | 3.17 |

* R = Reduced size of motor casing as compared to shaft extension and flange.

fcs-mott-4p50_a_te



FCE - FCS SERIES

HYDRAULIC PERFORMANCE TABLE 50 Hz, 2 POLES

| PUMPE TYPE | POWER | | Q = DELIVERY | | | | | | | | | | | | | | | | | | | | |
|-------------|-------|------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | H = TOTAL HEAD METERS COLUMN OF WATER | | | | | | | | | | | | | | | | | | | | |
| | | | l/min | 0 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2500 | 3000 |
| | | m³/h | 0 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 150 | 180 | 192 |
| | | kW | HP | | | | | | | | | | | | | | | | | | | | |
| 40-125/07 | 0,75 | 1 | 17,2 | 15,1 | 13,6 | 11,8 | 9,6 | 6,9 | 3,6 | | | | | | | | | | | | | | |
| 40-125/11 | 1,1 | 1,5 | 22,5 | 20,2 | 18,6 | 16,7 | 14,5 | 11,9 | 8,8 | | | | | | | | | | | | | | |
| 40-160/15 | 1,5 | 2 | 27,3 | 24,7 | 22,9 | 20,9 | 18,7 | 16,1 | 13,1 | 9,3 | | | | | | | | | | | | | |
| 40-160/22 | 2,2 | 3 | 35,5 | 32,5 | 31 | 29 | 26,5 | 24 | 21 | 17,7 | | | | | | | | | | | | | |
| 40-200/40A* | 4 | 5,5 | 42,5 | 39 | 36,5 | 34 | 31 | 27 | | | | | | | | | | | | | | | |
| 40-200/40 | 4 | 5,5 | 51 | 47 | 44,5 | 41,5 | 38,5 | 35 | 30,5 | | | | | | | | | | | | | | |
| 40-200/55 | 5,5 | 7,5 | 62 | 57,5 | 54,5 | 51,5 | 48 | 44 | 39,5 | | | | | | | | | | | | | | |
| 40-250/75 | 7,5 | 10 | 75,5 | 71 | 68,5 | 65 | 61,5 | 57,5 | 53 | | | | | | | | | | | | | | |
| 40-250/110 | 11 | 15 | 85 | 80,5 | 78 | 75 | 71 | 67 | 62 | 56,5 | | | | | | | | | | | | | |
| 50-125/11 | 1,1 | 1,5 | 16,4 | | | 13,9 | 13 | 12 | 11 | 9,7 | 8,4 | 7 | 3,7 | | | | | | | | | | |
| 50-125/15 | 1,5 | 2 | 20,5 | | | 18 | 17 | 16 | 14,9 | 13,7 | 12,3 | 10,9 | 7,8 | | | | | | | | | | |
| 50-160/22 | 2,2 | 3 | 26 | | | 24 | 23 | 22 | 21 | 20 | 18,8 | 17,5 | 14,7 | | | | | | | | | | |
| 50-160/30 | 3 | 4 | 33 | | | 30,5 | 29,5 | 28,5 | 27 | 26 | 24,5 | 23 | 20 | 13 | | | | | | | | | |
| 50-160/40 | 4 | 5,5 | 38 | | | 36 | 35 | 34 | 33 | 31,5 | 30 | 28,5 | 25 | 17,5 | | | | | | | | | |
| 50-200/55 | 5,5 | 7,5 | 47 | | | 43,5 | 42 | 41 | 39,5 | 38 | 36 | 34,5 | 30,5 | | | | | | | | | | |
| 50-200/75 | 7,5 | 10 | 56 | | | 52 | 51 | 49,5 | 48 | 46,5 | 45 | 43,5 | 39,5 | | | | | | | | | | |
| 50-250/** | 11 | 15 | 63 | | | 59,5 | 58 | 57 | 55 | 54 | 52 | 50,5 | 46,5 | 38 | | | | | | | | | |
| 50-250/110 | 11 | 15 | 69,5 | | | 65,5 | 64 | 63 | 61 | 60 | 58,5 | 56,5 | 53,5 | 45 | | | | | | | | | |
| 50-250/150 | 15 | 20 | 83 | | | 79,5 | 78 | 76,5 | 75 | 73,5 | 72 | 70 | 66 | 56,5 | | | | | | | | | |
| 65-125/22 | 2,2 | 3 | 18,8 | | | | | | | 16,4 | 16 | 15,4 | 14,3 | 11,4 | 7,9 | | | | | | | | |
| 65-125/30 | 3 | 4 | 23 | | | | | | | 20,3 | 20 | 19,5 | 18,1 | 15,2 | 11,6 | | | | | | | | |
| 65-125/40 | 4 | 5,5 | 26,5 | | | | | | | 24,5 | 24,5 | 24 | 22,5 | 19,7 | 16,3 | 12,2 | | | | | | | |
| 65-160/55 | 5,5 | 7,5 | 35 | | | | | | | 32,5 | 32 | 31,5 | 30 | 27 | 23,5 | 19 | | | | | | | |
| 65-160/75 | 7,5 | 10 | 42,5 | | | | | | | 40 | 39,5 | 38,5 | 37,5 | 34 | 30 | 25 | | | | | | | |
| 65-200/** | 11 | 15 | 53 | | | | | | | 47,5 | 47 | 46 | 44 | 40 | 35 | 28,5 | | | | | | | |
| 65-200/110 | 11 | 15 | 61 | | | | | | | 55,5 | 54 | 53 | 51,5 | 47 | 42 | 36 | | | | | | | |
| 65-250/150 | 15 | 20 | 70 | | | | | | | 66,5 | 65,5 | 64,5 | 63 | 59 | 54 | 49 | 43 | | | | | | |
| 65-250/185 | 18,5 | 25 | 80 | | | | | | | 75,5 | 75 | 74 | 72 | 68 | 63 | 57,5 | 51,5 | | | | | | |
| 65-250/220 | 22 | 30 | 89 | | | | | | | 84,5 | 83,5 | 82,5 | 80,5 | 76,5 | 71,5 | 66 | 60 | 52,5 | | | | | |
| 80-125/30 | 3 | 4 | 15,5 | | | | | | | | | 14,5 | 13,5 | 12,5 | 11 | 9 | | | | | | | |
| 80-125/40 | 4 | 5,5 | 19 | | | | | | | | | 18 | 17 | 16 | 14 | 12,5 | 11,5 | | | | | | |
| 80-125/55 | 5,5 | 7,5 | 23 | | | | | | | | | 21,5 | 20,5 | 19,5 | 18 | 16,5 | 14,5 | | | | | | |
| 80-160/75 | 7,5 | 10 | 28 | | | | | | | | | 26,5 | 25,5 | 24,5 | 23,5 | 22,5 | 21 | | | | | | |
| 80-200/110 | 11 | 15 | 41 | | | | | | | | | 37 | 35 | 33 | 30,5 | 28 | 24,5 | 20,5 | | | | | |
| 80-200/150 | 15 | 20 | 49,5 | | | | | | | | | 46,5 | 45 | 43 | 41 | 39 | 36,5 | 33 | | | | | |
| 80-200/185 | 18,5 | 25 | 57 | | | | | | | | | 53,5 | 51,5 | 50 | 48 | 46 | 43,5 | 41 | | | | | |
| 80-200/220 | 22 | 30 | 65 | | | | | | | | | 61 | 59,5 | 57,5 | 55,5 | 53 | 51 | 48 | 45 | | | | |
| 100-160/110 | 11 | 15 | 29 | | | | | | | | | | | 28 | 27,5 | 26,5 | 25,5 | 24,5 | 23 | 19,5 | | | |
| 100-200/185 | 18,5 | 25 | 45 | | | | | | | | | | | 41 | 39,5 | 38 | 37 | 35 | 32 | 30,5 | 25 | | |
| 100-200/220 | 22 | 30 | 53 | | | | | | | | | | | 49,5 | 48 | 47 | 45 | 44 | 42,5 | 38,5 | 33,5 | 31 | |

Performances in compliance with ISO 9906 – Annex A
 * .../40A for FCE version, .../30 for FCS version
 * **.../92 for FCE version, .../110A for FCS version

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FCE - FCS SERIES

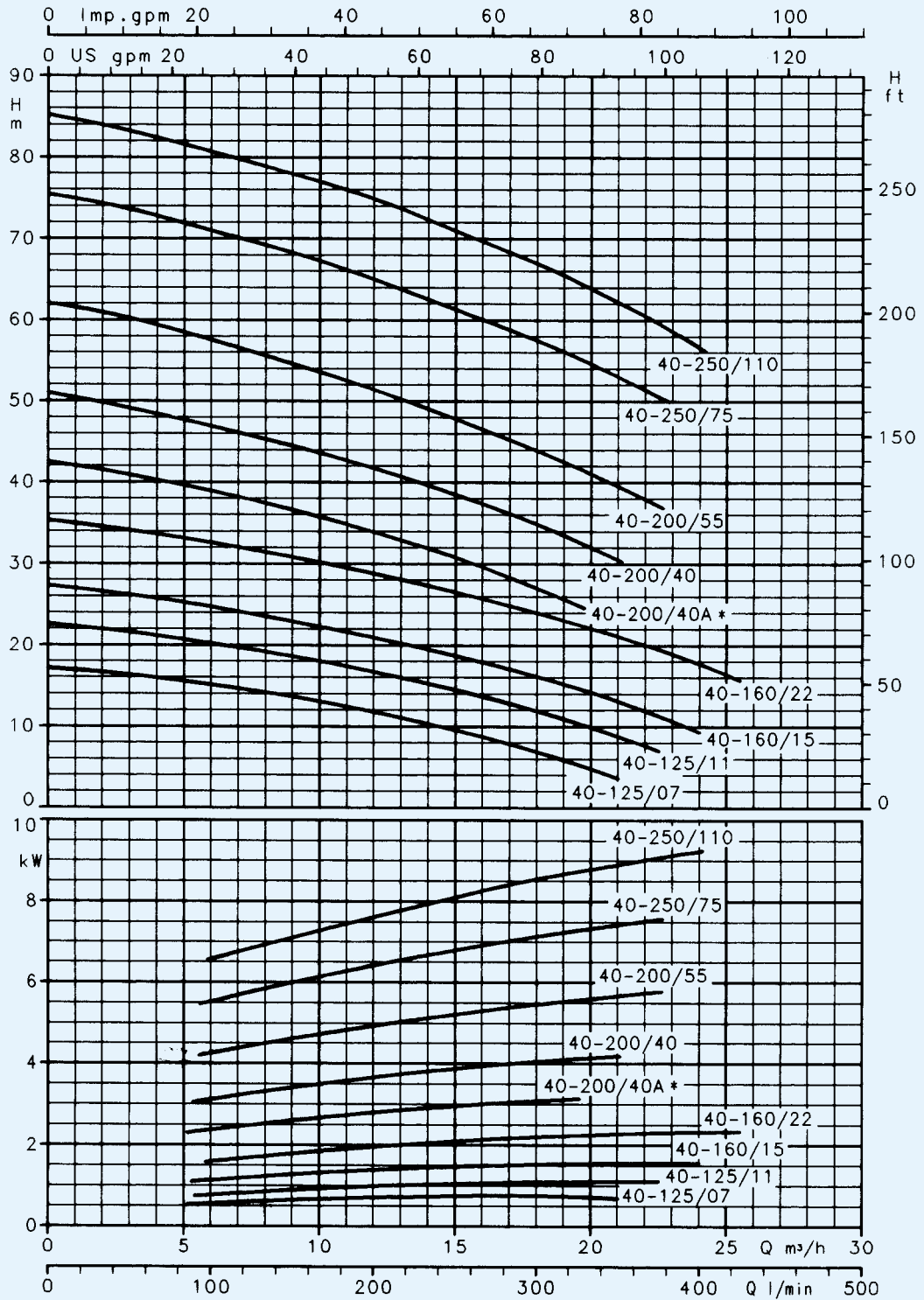
HYDRAULIC PERFORMANCE TABLE 50 Hz, 4 POLES

| PUMP TYPE | POWER | | Q = DELIVERY | | | | | | | | | | | | | | | | | | | | | | | |
|------------|-------|------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | H = TOTAL HEAD METERS COLUMN OF WATER | | | | | | | | | | | | | | | | | | | | | | | |
| | | | l/min | 0 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 800 | 1000 | 1200 | 1400 | 1600 | 1800 | 2000 | 2500 |
| m³/h | 0 | 3 | 4,5 | 6 | 7,5 | 9 | 10,5 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 36 | 48 | 60 | 72 | 84 | 96 | 108 | 120 | 150 | 162 | | |
| | KW | HP | | | | | | | | | | | | | | | | | | | | | | | | |
| 40-125/02A | 0,25 | 0,33 | 4,7 | 4,3 | 4 | 3,6 | 3 | 2,4 | 1,7 | | | | | | | | | | | | | | | | | |
| 40-125/02 | 0,25 | 0,33 | 5,8 | 5,3 | 4,9 | 4,5 | 4 | 3,3 | 2,6 | | | | | | | | | | | | | | | | | |
| 40-160/02 | 0,25 | 0,33 | 7,1 | 6,4 | 6 | 5,5 | 5 | 4,3 | 3,6 | 2,6 | | | | | | | | | | | | | | | | |
| 40-160/03 | 0,37 | 0,5 | 8,9 | 8,2 | 7,7 | 7,2 | 6,7 | 6 | 5,2 | 4,4 | | | | | | | | | | | | | | | | |
| 40-200/05 | 0,55 | 0,75 | 12,4 | 11,5 | 10,8 | 10,1 | 9,2 | 8,2 | 7,1 | | | | | | | | | | | | | | | | | |
| 40-200/07 | 0,75 | 1 | 15 | 13,8 | 13 | 12,2 | 11,3 | 10,3 | 9,1 | 7,9 | | | | | | | | | | | | | | | | |
| 40-250/11 | 1,1 | 1,5 | 18,6 | 17,3 | 16,5 | 15,7 | 14,8 | 13,8 | 12,8 | 11,6 | | | | | | | | | | | | | | | | |
| 40-250/15 | 1,5 | 2 | 21 | 19,8 | 19 | 18,2 | 17,4 | 16,4 | 15,4 | 14,3 | | | | | | | | | | | | | | | | |
| 50-125/02 | 0,25 | 0,33 | 6,2 | | 5,5 | 5,7 | 5 | 4,6 | 4,3 | 3,6 | 2,7 | 1,8 | | | | | | | | | | | | | | |
| 50-125/03 | 0,37 | 0,5 | 8,1 | | 7,4 | 7,6 | 6,8 | 6,5 | 6,1 | 5,3 | 4,4 | 3,5 | 2,5 | | | | | | | | | | | | | |
| 50-160/05 | 0,55 | 0,75 | 9,4 | | 8,8 | 9 | 8,2 | 7,9 | 7,6 | 6,8 | 5,9 | 4,9 | 3,9 | 2,7 | | | | | | | | | | | | |
| 50-200/07 | 0,75 | 1 | 11,4 | | 10,5 | 10,3 | 9,9 | 9,5 | 9,1 | 8,2 | 7,1 | 5,6 | 3,7 | | | | | | | | | | | | | |
| 50-200/11 | 1,1 | 1,5 | 13,6 | | 12,6 | 12,4 | 12 | 11,6 | 11,2 | 10,3 | 9,2 | 7,8 | 5,9 | | | | | | | | | | | | | |
| 50-250/15 | 1,5 | 2 | 17 | | 15,9 | 15,6 | 15,2 | 14,8 | 14,4 | 13,5 | 12,6 | 11,5 | 10,1 | 8,7 | 7 | | | | | | | | | | | |
| 50-250/22 | 2,2 | 3 | 20,2 | | 19 | 18,6 | 18,2 | 17,8 | 17,4 | 16,5 | 15,5 | 14,4 | 13 | 11,5 | 9,9 | | | | | | | | | | | |
| 65-125/03 | 0,37 | 0,5 | 5,6 | | | | | | 4,9 | 4,6 | 4,3 | 3,9 | 3,5 | 3,1 | 2,6 | 1,6 | | | | | | | | | | |
| 65-125/05 | 0,55 | 0,75 | 6,7 | | | | | | 5,9 | 5,7 | 5,4 | 5,1 | 4,7 | 4,3 | 3,9 | 2,8 | | | | | | | | | | |
| 65-160/07 | 0,75 | 1 | 8,6 | | | | | | 7,8 | 7,6 | 7,2 | 6,8 | 6,4 | 5,9 | 5,4 | 4,3 | | | | | | | | | | |
| 65-160/11 | 1,1 | 1,5 | 10,4 | | | | | | 9,7 | 9,4 | 9 | 8,6 | 8,2 | 7,7 | 7,2 | 5,9 | 3,1 | | | | | | | | | |
| 65-200/15 | 1,5 | 2 | 14,7 | | | | | | 13,2 | 12,7 | 12,2 | 11,6 | 11 | 10,4 | 9,7 | 8,1 | | | | | | | | | | |
| 65-250/22 | 2,2 | 3 | 19 | | | | | | 17,6 | 17 | 16,5 | 16 | 15,4 | 14,8 | 14,1 | 12,7 | 9 | | | | | | | | | |
| 65-250/30 | 3 | 4 | 21,5 | | | | | | 20,1 | 19,7 | 19,2 | 18,7 | 18 | 17,4 | 16,6 | 15,1 | 11,7 | | | | | | | | | |
| 80-125/07 | 0,75 | 1 | 5,6 | | | | | | | 5,2 | 5,1 | 5 | 4,8 | 4,6 | 4,3 | 3,3 | 2,2 | | | | | | | | | |
| 80-125/11 | 1,1 | 1,5 | 6,8 | | | | | | | 6,4 | 6,3 | 6,2 | 6,1 | 5,9 | 5,7 | 4,8 | 3,8 | 2,5 | | | | | | | | |
| 80-200/15 | 1,5 | 2 | 10,5 | | | | | | | 9,6 | 9,4 | 9,2 | 9 | 8,7 | 8,2 | 6,7 | 4,7 | | | | | | | | | |
| 80-200/22 | 2,2 | 3 | 13,7 | | | | | | | 12,7 | 12,5 | 12,3 | 12,1 | 11,9 | 11,3 | 10 | 7,9 | 5,5 | | | | | | | | |
| 80-200/30 | 3 | 4 | 15,8 | | | | | | | 14,7 | 14,5 | 14,3 | 14,1 | 13,9 | 13,3 | 12 | 10,3 | 8,1 | | | | | | | | |
| 80-250/40 | 4 | 5,5 | 19,9 | | | | | | | 18,7 | 18,5 | 18,3 | 18 | 17,6 | 17 | 15,5 | 13,6 | 11,3 | 8,4 | | | | | | | |
| 80-250/55 | 5,5 | 7,5 | 23,2 | | | | | | | 22 | 21,8 | 21,5 | 21,3 | 21 | 20,3 | 18,9 | 17 | 14,8 | 12 | | | | | | | |
| 100-160/15 | 1,5 | 2 | 7,8 | | | | | | | | 7,4 | 7,2 | 6,8 | 6,3 | 5,6 | 4,9 | 4 | 3 | | | | | | | | |
| 100-200/22 | 2,2 | 3 | 10,5 | | | | | | | | 9,6 | 9,3 | 8,7 | 8 | 7,1 | 6 | 4,9 | 3,5 | 2 | | | | | | | |
| 100-200/30 | 3 | 4 | 12,8 | | | | | | | | 11,8 | 11,5 | 11 | 10,2 | 9,4 | 8,3 | 7,1 | 5,8 | 4,3 | | | | | | | |
| 100-250/40 | 4 | 5,5 | 17 | | | | | | | | 15,8 | 15,5 | 14,8 | 13,9 | 12,9 | 11,8 | 10,4 | 9,2 | 7,8 | | | | | | | |
| 100-250/55 | 5,5 | 7,5 | 20,5 | | | | | | | | 19,2 | 19 | 18,2 | 17,5 | 16,5 | 15,4 | 14,3 | 13,2 | 11,8 | 8 | | | | | | |
| 100-250/75 | 7,5 | 10 | 24 | | | | | | | | 22,8 | 22,5 | 21,8 | 21 | 20,3 | 19,3 | 18,3 | 17,2 | 15,9 | 11,9 | 10 | | | | | |

Performances in compliance with ISO 9906 – Annex A



FC 40 SERIES OPERATING CHARACTERISTICS AT 2900 rpm 50 Hz, 2 POLES

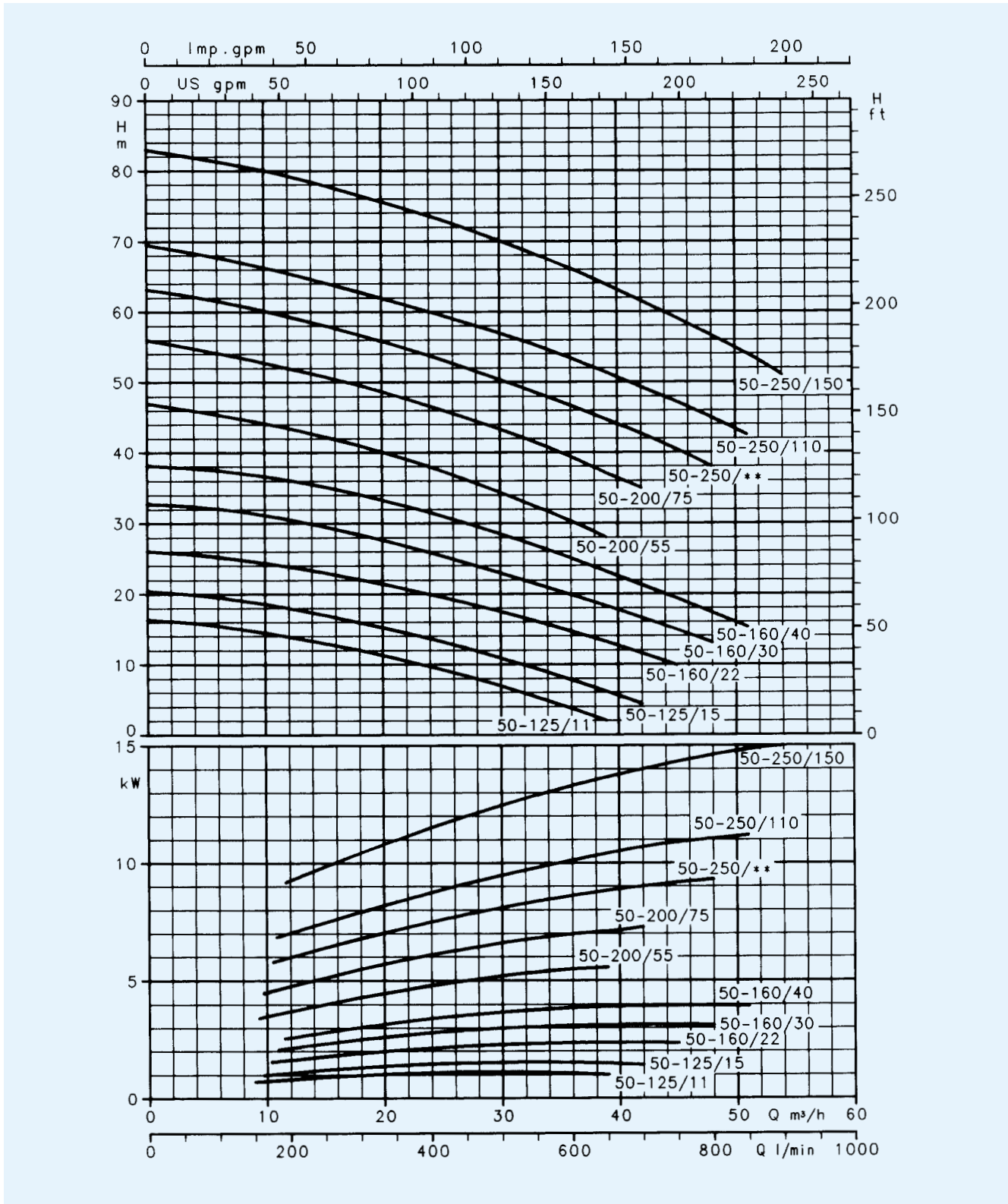


* /40A - 4 kW - 4 kW - 5,5 HP for FCE version - /30 - 3kW - 4 HP for FCS version

Please verify with the price list the availability of model type FCE-FCS
These performances are valid for liquids with density $\rho = 1.0 \text{ kg/dm}^3$ and kinematic viscosity $\gamma = 1 \text{ mm}^2/\text{sec}$.

FC

FC 50 SERIES OPERATING CHARACTERISTICS AT 2900 rpm 50 Hz, 2 POLES

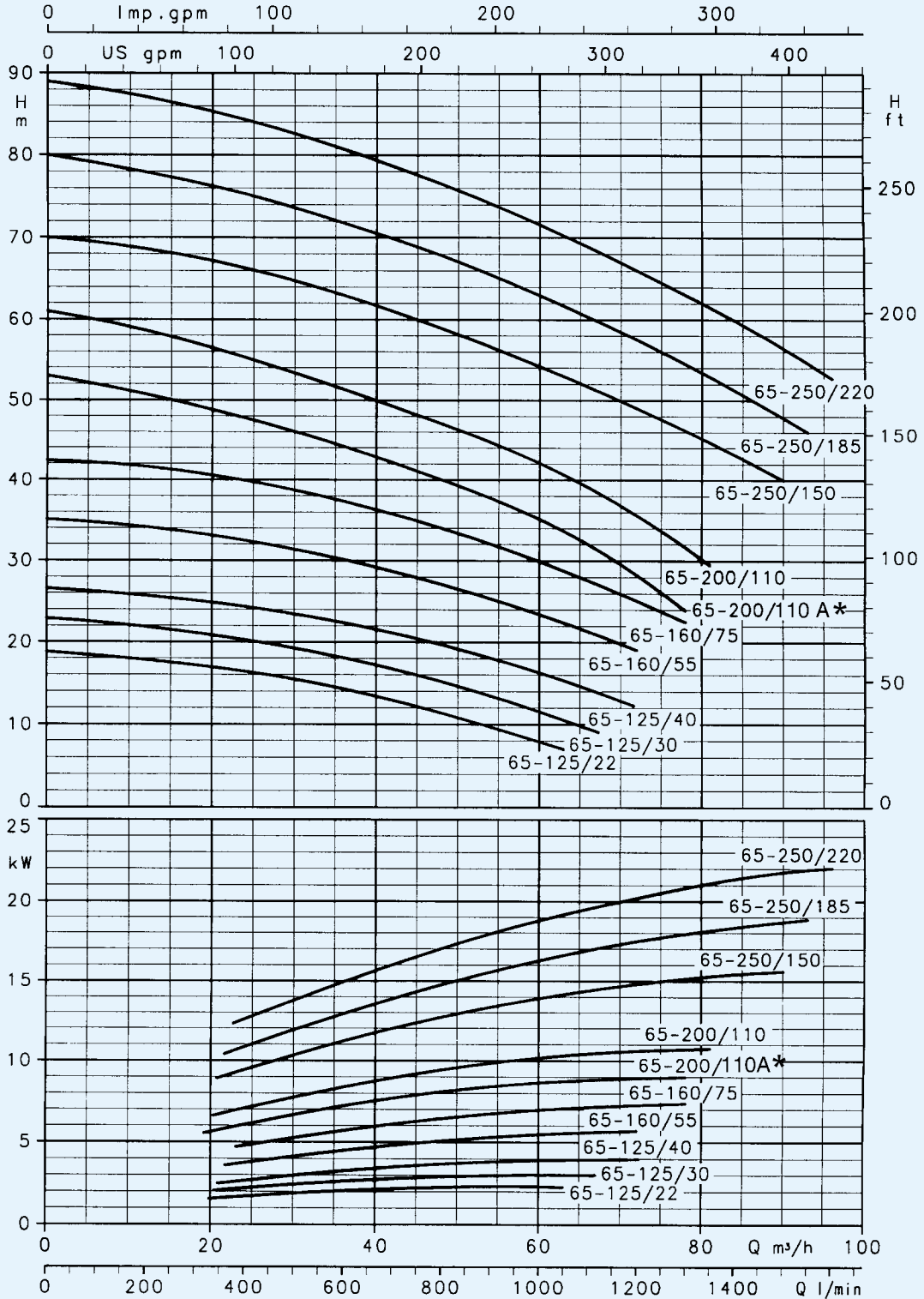


FC

** /92 - 9,2 kW - 12,5 HP for FCE version - /110A - 11 kW - 15 HP for FCS version

Please verify with the price list the availability of model type FCE-FCS
These performances are valid for liquids with density $\rho = 1.0 \text{ kg/dm}^3$ and kinematic viscosity $\gamma = 1 \text{ mm}^2/\text{sec}$.

FC 65 SERIES OPERATING CHARACTERISTICS AT 2900 rpm 50 Hz, 2 POLES

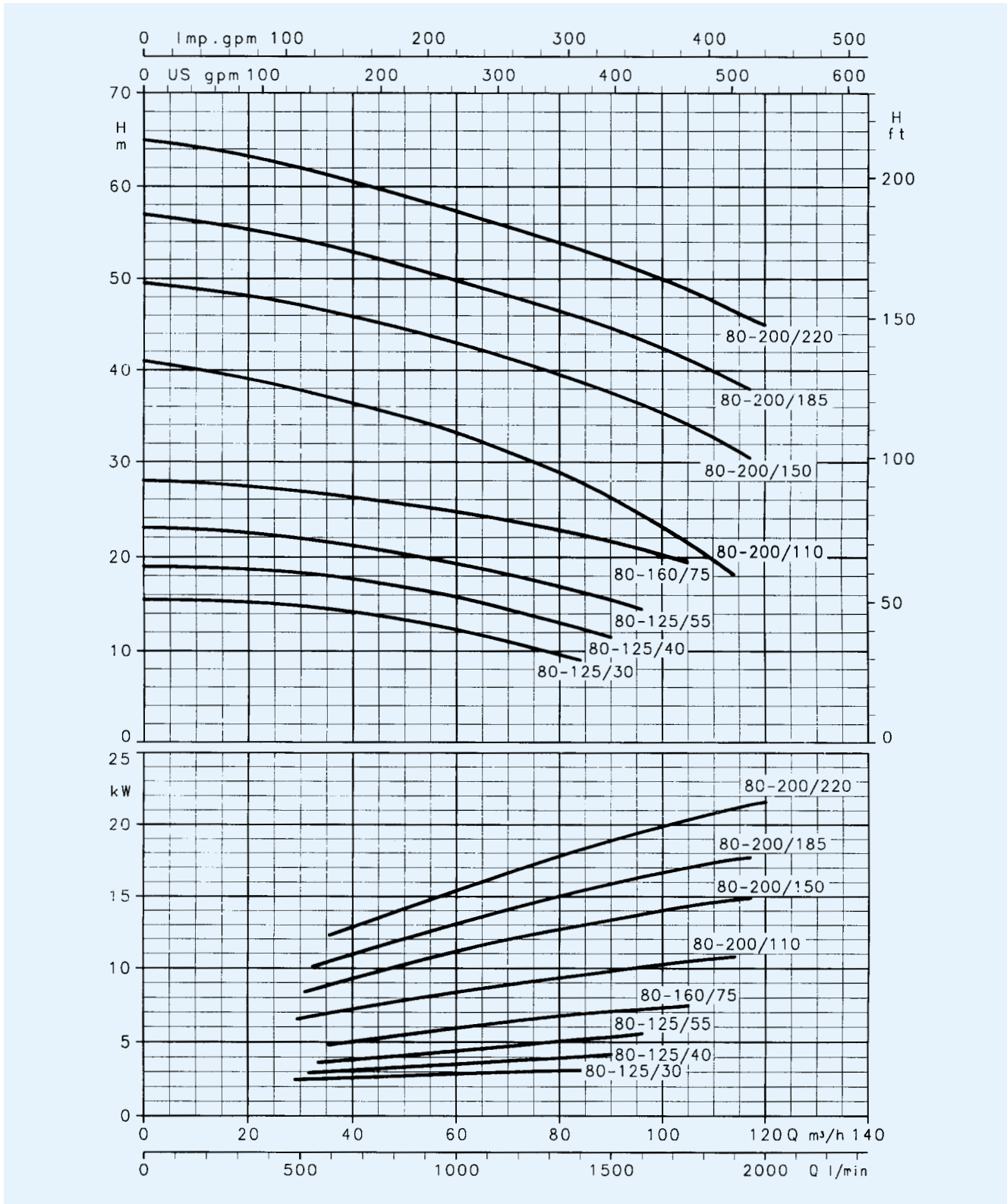


* 92/ - 9,2 kW - 12,5 HP for FCE version - /110A - 11 kW - 15 HP for FCS version

Please verify with the price list the availability of model type FCE-FCS
These performances are valid for liquids with density $\rho = 1.0 \text{ kg/dm}^3$ and kinematic viscosity $\gamma = 1 \text{ mm}^2/\text{sec}$.

FC

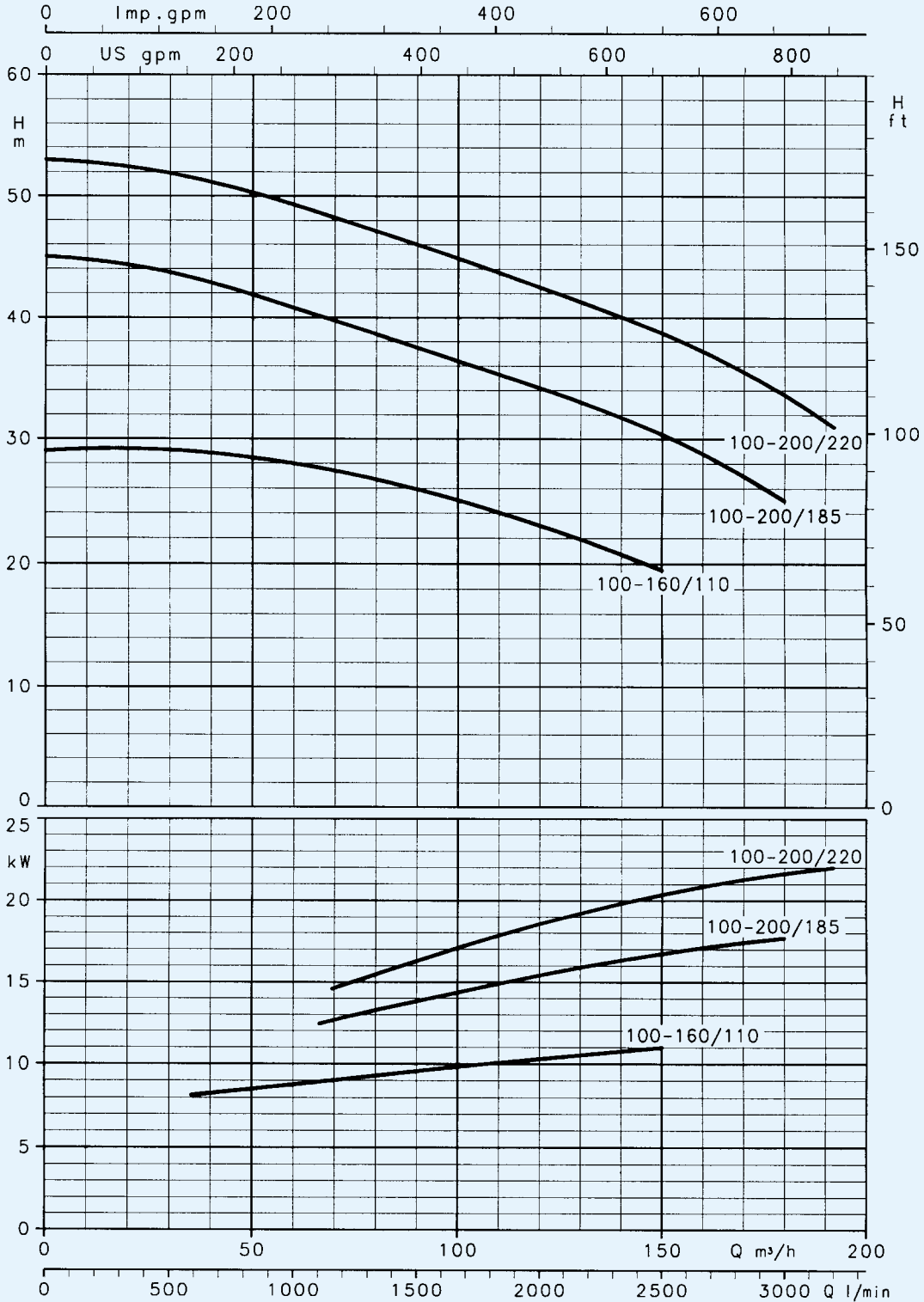
FC 80 SERIES OPERATING CHARACTERISTICS AT 2900 rpm 50 Hz, 2 POLES



FC

Please verify with the price list the availability of model type FCE-FCS
 These performances are valid for liquids with density $\rho = 1.0 \text{ kg/dm}^3$ and kinematic viscosity $\gamma = 1 \text{ mm}^2/\text{sec}$.

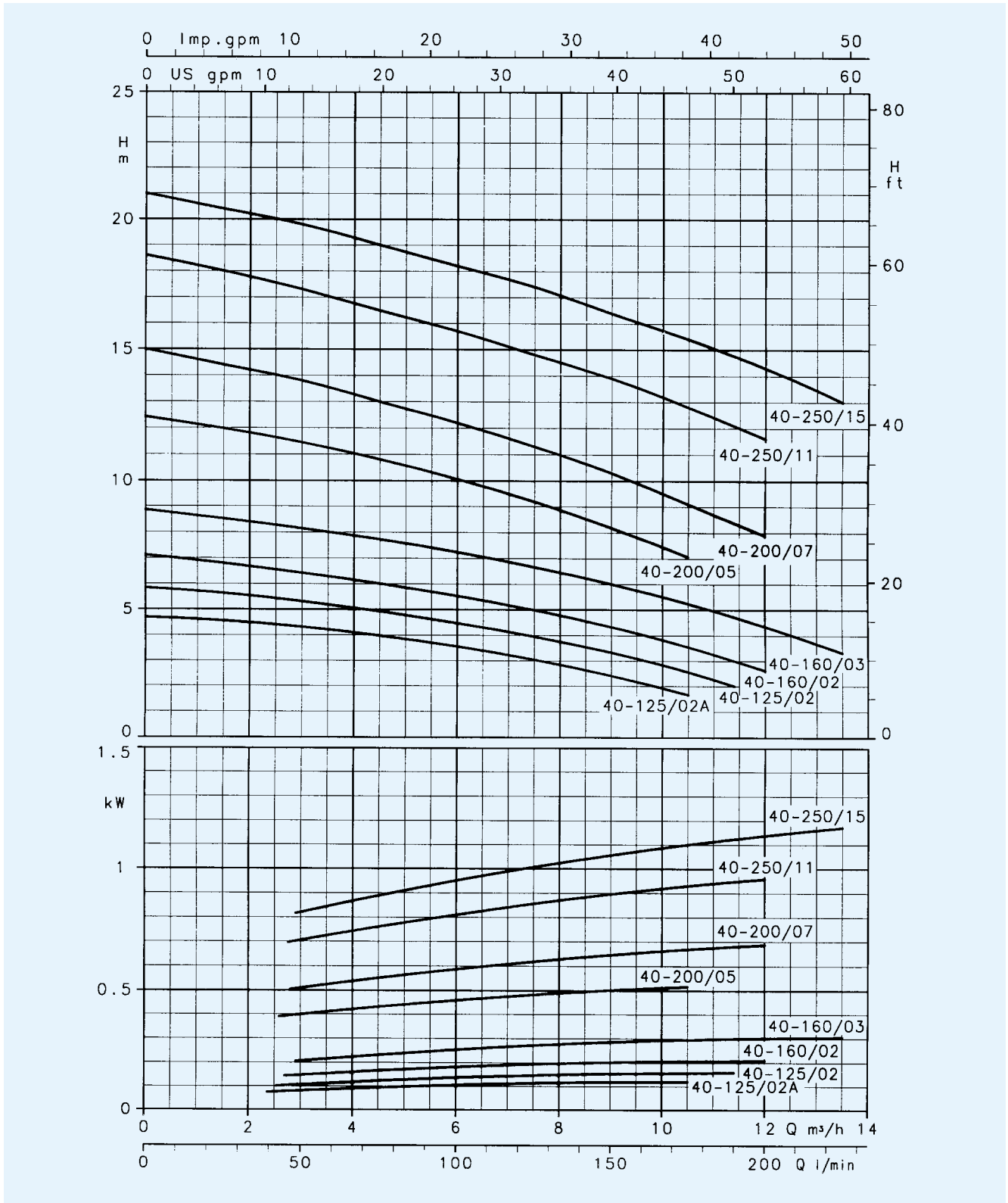
**FC 100 SERIES
OPERATING CHARACTERISTICS AT 2900 rpm 50 Hz, 2 POLES**



Please verify with the price list the availability of model type FCE-FCS
These performances are valid for liquids with density $\rho = 1.0 \text{ kg/dm}^3$ and kinematic viscosity $\gamma = 1 \text{ mm}^2/\text{sec}$.

FC

**FC4 40 SERIES
OPERATING CHARACTERISTICS AT 1450 rpm 50 Hz, 4 POLES**

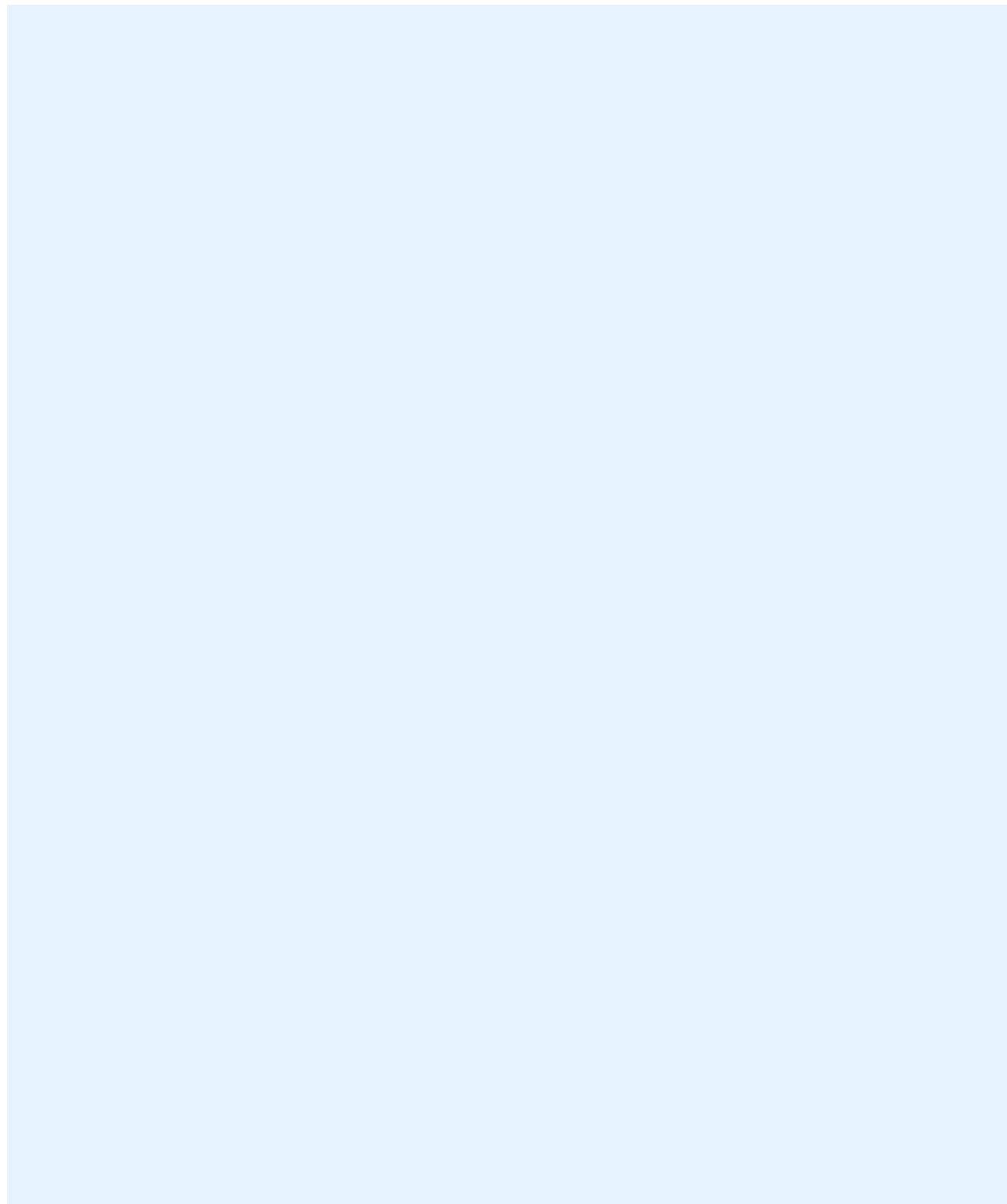


FC

Please verify with the price list the availability of model type FCE-FCS
These performances are valid for liquids with density $\rho = 1.0 \text{ kg/dm}^3$ and kinematic viscosity $\gamma = 1 \text{ mm}^2/\text{sec}$.

**FC4 50 SERIES
OPERATING CHARACTERISTICS AT 1450 rpm 50 Hz, 4 POLES**

FC



Please verify with the price list the availability of model type FCE-FCS
These performances are valid for liquids with density $\rho = 1.0 \text{ kg/dm}^3$ and kinematic viscosity $\gamma = 1 \text{ mm}^2/\text{sec}$.

