

Circular Duct Fan

TF



Description

The TF is an in-line centrifugal duct fan with high capacity and excellent reliability. The straight through radial fan is compact and very easy to install. It can cope with high pressure and long duct runs, whilst still operating at acceptable sound levels.

The TF range of fans have casings manufactured from galvanized steel and are moisture resistant.

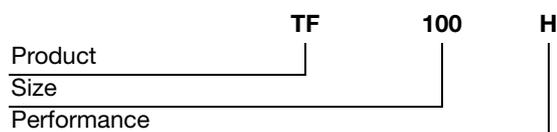
They are approved for installation in humid or damp environments being rated IP44 when installed in a duct system.

The fan speed can be controlled by voltage variation regulators. Several fans can be connected to the same regulator.

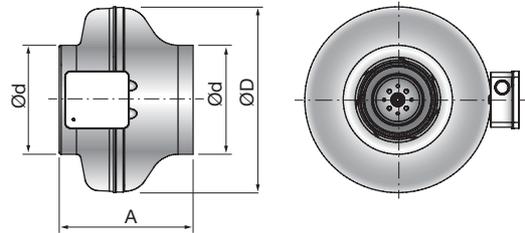
The motors are an external rotor type motor. They have maintenance free sealed ball bearings and are protected from over-heating by thermo contacts.

In most cases the fans have two motor sizes per fan. One low effect (low airflow) and one high effect H (high airflow).

Ordering example



Dimensions



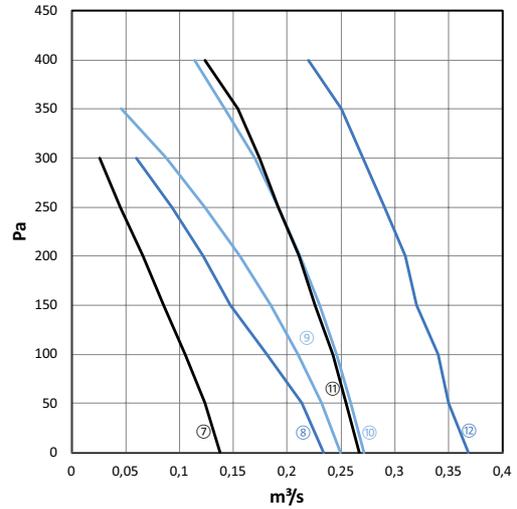
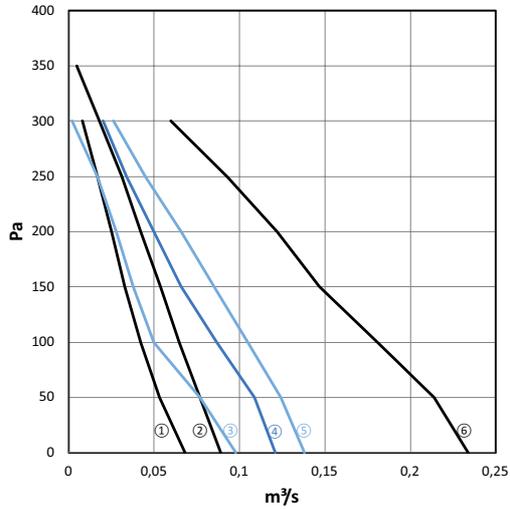
| Product | Ød nom | ØD nom | A mm | m kg |
|---------|-----------|-----------|---------|---------|
| TF100 | 100 | 243 | 188 | 2,60 |
| TF100H | 100 | 243 | 188 | 2,60 |
| TF125 | 125 | 243 | 188 | 2,70 |
| TF125H | 125 | 243 | 188 | 2,70 |
| TF150 | 150 | 271 | 191 | 3,00 |
| TF150H | 150 | 345 | 228 | 4,00 |
| TF160 | 160 | 271 | 195 | 2,90 |
| TF160H | 160 | 345 | 226 | 4,00 |
| TF200 | 200 | 345 | 228 | 4,20 |
| TF200H | 200 | 345 | 228 | 4,90 |
| TF250H | 250 | 345 | 228 | 4,90 |
| TF315 | 315 | 402 | 257 | 5,90 |

H = High effect
All fans are 230 VAC

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Technical data



| Graph Ref. | Product | m ³ /s @ Pa | | | | | | | | | Motor W | Amps FLC | Speed RPM |
|------------|---------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|---------|----------|-----------|
| | | 0 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | | | |
| 1 | TF100 | 0,068 | 0,053 | 0,042 | 0,033 | 0,025 | 0,017 | 0,008 | | | 41 | 0,18 | 1730 |
| 2 | TF100H | 0,089 | 0,077 | 0,065 | 0,054 | 0,042 | 0,031 | 0,018 | 0,005 | | 62 | 0,27 | 2530 |
| 3 | TF125 | 0,098 | 0,077 | 0,05 | 0,038 | 0,028 | 0,017 | 0,002 | | | 40 | 0,18 | 1640 |
| 4 | TF125H | 0,121 | 0,109 | 0,087 | 0,066 | 0,05 | 0,034 | 0,02 | | | 62 | 0,27 | 2480 |
| 5 | TF150 | 0,138 | 0,124 | 0,105 | 0,085 | 0,066 | 0,045 | 0,026 | | | 62 | 0,27 | 2540 |
| 6 | TF150H | 0,234 | 0,214 | 0,181 | 0,147 | 0,122 | 0,903 | 0,06 | | | 101 | 0,44 | 2480 |
| 7 | TF160 | 0,138 | 0,124 | 0,105 | 0,085 | 0,066 | 0,045 | 0,026 | | | 62 | 0,27 | 2540 |
| 8 | TF160H | 0,234 | 0,214 | 0,181 | 0,147 | 0,122 | 0,093 | 0,06 | | | 101 | 0,44 | 2480 |
| 9 | TF200 | 0,249 | 0,232 | 0,21 | 0,185 | 0,156 | 0,124 | 0,088 | 0,046 | | 115 | 0,51 | 2580 |
| 10 | TF200H | 0,271 | 0,259 | 0,246 | 0,23 | 0,212 | 0,192 | 0,17 | 0,142 | 0,114 | 145 | 0,63 | 2750 |
| 11 | TF250H | 0,267 | 0,255 | 0,242 | 0,226 | 0,211 | 0,192 | 0,174 | 0,154 | 0,124 | 145 | 0,63 | 2750 |
| 12 | TF315 | 0,368 | 0,35 | 0,34 | 0,32 | 0,31 | 0,29 | 0,27 | 0,25 | 0,22 | 224 | 0,97 | 2770 |

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Technical data

| Graph Ref. | Product | Frequency | Sound Power Level | | | | | | | | dB(A) @ 3m |
|------------|---------|-----------|-------------------|-----|-----|-----|----|----|----|----|---------------|
| | | | 63 | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| 1 | TF100 | Inlet | 45 | 56 | 64 | 60 | 58 | 52 | 45 | 38 | 40 |
| | | Outlet | 44 | 56 | 64 | 60 | 58 | 53 | 45 | 38 | |
| | | Breakout | 34 | 21 | 37 | 37 | 42 | 39 | 41 | 34 | |
| 2 | TF100H | Inlet | 50 | 61 | 66 | 65 | 65 | 58 | 52 | 46 | 44 |
| | | Outlet | 49 | 64 | 66 | 65 | 64 | 60 | 54 | 48 | |
| | | Breakout | 33 | 24 | 40 | 40 | 45 | 42 | 44 | 38 | |
| 3 | TF125 | Inlet | 45 | 53 | 65 | 62 | 59 | 53 | 47 | 39 | 40 |
| | | Outlet | 44 | 52 | 65 | 61 | 57 | 53 | 48 | 40 | |
| | | Breakout | 33 | 22 | 39 | 36 | 40 | 39 | 41 | 33 | |
| 4 | TF125H | Inlet | 52 | 56 | 68 | 67 | 65 | 59 | 55 | 48 | 44 |
| | | Outlet | 46 | 58 | 63 | 66 | 63 | 60 | 56 | 49 | |
| | | Breakout | 33 | 25 | 40 | 40 | 44 | 43 | 45 | 38 | |
| 5 | TF150 | Inlet | 48 | 55 | 65 | 65 | 63 | 58 | 53 | 48 | 43 |
| | | Outlet | 48 | 56 | 61 | 63 | 63 | 59 | 58 | 49 | |
| | | Breakout | 33 | 24 | 39 | 40 | 45 | 44 | 44 | 32 | |
| 6 | TF150H | Inlet | 48 | 61 | 71 | 71 | 69 | 61 | 62 | 52 | 49 |
| | | Outlet | 50 | 59 | 64 | 66 | 68 | 63 | 62 | 53 | |
| | | Breakout | 33 | 34 | 42 | 49 | 53 | 47 | 48 | 35 | |
| 7 | TF160 | Inlet | 48 | 55 | 65 | 65 | 63 | 58 | 53 | 48 | 43 |
| | | Outlet | 48 | 56 | 61 | 63 | 63 | 59 | 58 | 49 | |
| | | Breakout | 33 | 24 | 39 | 40 | 45 | 44 | 44 | 32 | |
| 8 | TF160H | Inlet | 48 | 61 | 71 | 71 | 69 | 61 | 62 | 52 | 49 |
| | | Outlet | 50 | 59 | 64 | 66 | 68 | 63 | 62 | 53 | |
| | | Breakout | 33 | 34 | 42 | 49 | 53 | 47 | 48 | 35 | |
| 9 | TF200 | Inlet | 50 | 61 | 69 | 71 | 67 | 63 | 60 | 53 | 47 |
| | | Outlet | 49 | 60 | 65 | 67 | 65 | 63 | 62 | 53 | |
| | | Breakout | 32 | 31 | 41 | 46 | 49 | 47 | 46 | 33 | |
| 10 | TF200H | Inlet | 54 | 62 | 67 | 69 | 66 | 63 | 62 | 56 | 45 |
| | | Outlet | 57 | 60 | 68 | 69 | 67 | 65 | 64 | 58 | |
| | | Breakout | 25 | 33 | 40 | 45 | 47 | 43 | 43 | 34 | |
| 11 | TF250H | Inlet | 53 | 60 | 64 | 65 | 67 | 63 | 63 | 61 | 48 |
| | | Outlet | 55 | 60 | 70 | 65 | 67 | 65 | 63 | 60 | |
| | | Breakout | 25 | 30 | 34 | 48 | 52 | 47 | 44 | 38 | |
| 12 | TF315H | Inlet | 55 | 60 | 64 | 64 | 64 | 68 | 69 | 64 | 48 |
| | | Outlet | 57 | 60 | 71 | 65 | 66 | 69 | 69 | 62 | |
| | | Breakout | 25 | 44 | 48 | 46 | 46 | 47 | 46 | 36 | |

Circular Duct Fan

TF EC



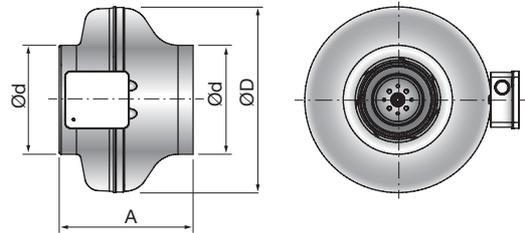
Description

TF EC has the same high quality and accessories as our regular TF.

The EC (Electronically commutated) motor has an electrical control unit integrated in the motor, which increases efficiency.

The fan speed can be controlled by a 0 - 10 VDC.

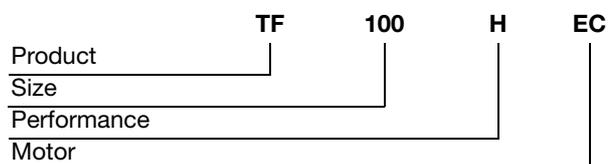
Dimensions



| Product | Ød nom | ØD nom | A [mm] | m [kg] |
|-----------|-----------|-----------|-----------|-----------|
| TF100H EC | 100 | 243 | 188 | 2,60 |
| TF125H EC | 125 | 243 | 188 | 2,60 |
| TF150 EC | 150 | 271 | 191 | 2,80 |
| TF160 EC | 160 | 271 | 195 | 2,80 |
| TF160H EC | 160 | 345 | 226 | 3,90 |
| TF200H EC | 200 | 345 | 228 | 4,00 |
| TF250 EC | 250 | 345 | 228 | 4,10 |
| TF315 EC | 315 | 402 | 257 | 5,40 |
| TF315H EC | 315 | 402 | 257 | 6,20 |

H = High effect
All fans are 230 VAC

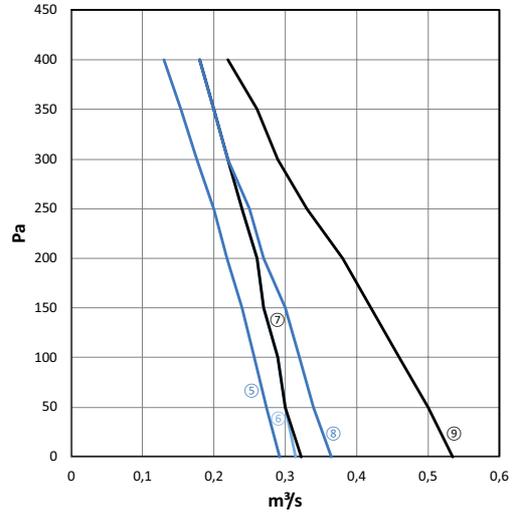
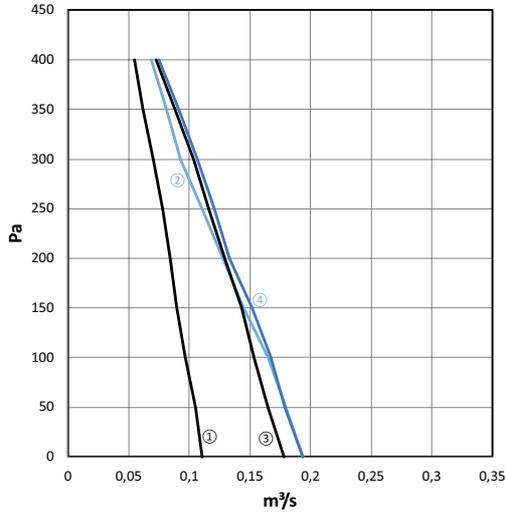
Ordering example



Circular Duct Fan

TF EC

Technical data



| Graph Ref. | Product | m³/s @ Pa | | | | | | | | | Motor W | Amps FLC | Speed RPM |
|------------|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|---------|----------|-----------|
| | | 0 | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | | | |
| 1 | TF100H EC | 0,111 | 0,105 | 0,097 | 0,090 | 0,084 | 0,078 | 0,070 | 0,062 | 0,055 | 111 | 0,90 | 3600 |
| 2 | TF125H EC | 0,194 | 0,18 | 0,165 | 0,145 | 0,128 | 0,111 | 0,093 | 0,081 | 0,069 | 105 | 0,86 | 3400 |
| 3 | TF150 EC | 0,178 | 0,165 | 0,153 | 0,143 | 0,129 | 0,116 | 0,104 | 0,088 | 0,073 | 99 | 0,82 | 3400 |
| 4 | TF160 EC | 0,194 | 0,179 | 0,167 | 0,152 | 0,133 | 0,121 | 0,107 | 0,091 | 0,075 | 103 | 0,83 | 3390 |
| 5 | TF160H EC | 0,292 | 0,274 | 0,257 | 0,24 | 0,218 | 0,2 | 0,176 | 0,154 | 0,13 | 132 | 1,06 | 3170 |
| 6 | TF200H EC | 0,314 | 0,3 | 0,29 | 0,27 | 0,26 | 0,24 | 0,22 | 0,2 | 0,18 | 154 | 1,21 | 3250 |
| 7 | TF250 EC | 0,322 | 0,3 | 0,29 | 0,27 | 0,26 | 0,24 | 0,22 | 0,2 | 0,18 | 155 | 1,25 | 3330 |
| 8 | TF315 EC | 0,364 | 0,34 | 0,32 | 0,3 | 0,27 | 0,25 | 0,22 | 0,2 | 0,18 | 159 | 1,22 | 2760 |
| 9 | TF315H EC | 0,535 | 0,5 | 0,46 | 0,42 | 0,38 | 0,33 | 0,29 | 0,26 | 0,22 | 226 | 1,00 | 2624 |

Circular Duct Fan

TF EC

Technical data

| Graph Ref. | Product | Frequency | Sound Power Level | | | | | | | | dB(A) @ 3m |
|------------|-----------|-----------|-------------------|-----|-----|-----|----|----|----|----|---------------|
| | | | 63 | 125 | 250 | 500 | 1K | 2K | 4K | 8K | |
| 1 | TF100H EC | Inlet | 54 | 72 | 74 | 74 | 71 | 67 | 64 | 58 | 46 |
| | | Outlet | 64 | 69 | 75 | 74 | 72 | 71 | 68 | 62 | |
| | | Breakout | 28 | 34 | 44 | 45 | 49 | 45 | 45 | 35 | |
| 2 | TF125H EC | Inlet | 56 | 67 | 70 | 71 | 68 | 64 | 62 | 56 | 52 |
| | | Outlet | 53 | 65 | 70 | 71 | 68 | 67 | 62 | 57 | |
| | | Breakout | 35 | 33 | 45 | 53 | 54 | 48 | 51 | 45 | |
| 3 | TF150 EC | Inlet | 55 | 64 | 67 | 73 | 66 | 64 | 62 | 59 | 45 |
| | | Outlet | 58 | 63 | 67 | 75 | 67 | 66 | 64 | 59 | |
| | | Breakout | 43 | 32 | 45 | 47 | 43 | 44 | 42 | 33 | |
| 4 | TF160 EC | Inlet | 55 | 64 | 67 | 73 | 66 | 64 | 62 | 59 | 46 |
| | | Outlet | 58 | 63 | 67 | 75 | 67 | 66 | 64 | 59 | |
| | | Breakout | 43 | 32 | 45 | 47 | 43 | 44 | 42 | 33 | |
| 5 | TF160H EC | Inlet | 55 | 64 | 67 | 73 | 66 | 64 | 62 | 59 | 51 |
| | | Outlet | 58 | 63 | 67 | 75 | 67 | 66 | 64 | 59 | |
| | | Breakout | 43 | 32 | 45 | 47 | 43 | 44 | 42 | 33 | |
| 6 | TF200H EC | Inlet | 59 | 69 | 72 | 74 | 69 | 70 | 67 | 58 | 47 |
| | | Outlet | 62 | 67 | 72 | 75 | 72 | 73 | 71 | 60 | |
| | | Breakout | 20 | 38 | 41 | 50 | 46 | 42 | 42 | 34 | |
| 7 | TF250H EC | Inlet | 51 | 59 | 65 | 65 | 66 | 63 | 61 | 51 | 46 |
| | | Outlet | 52 | 57 | 68 | 63 | 67 | 67 | 64 | 53 | |
| | | Breakout | 21 | 38 | 40 | 48 | 40 | 35 | 35 | 29 | |
| 8 | TF315 EC | Inlet | 63 | 72 | 72 | 69 | 74 | 74 | 71 | 60 | 47 |
| | | Outlet | 61 | 71 | 74 | 68 | 76 | 73 | 70 | 60 | |
| | | Breakout | 30 | 40 | 45 | 50 | 45 | 46 | 41 | 31 | |
| 9 | TF315H EC | Inlet | 58 | 62 | 65 | 68 | 67 | 69 | 67 | 65 | 52 |
| | | Outlet | 55 | 61 | 66 | 72 | 71 | 71 | 66 | 63 | |
| | | Breakout | 30 | 51 | 51 | 50 | 50 | 53 | 45 | 34 | |