



# CAST



**High pressure, single inlet centrifugal fans with sheet steel casing and straight blade impeller, for carrying dust and solids.**



#### Fan:

- Sheet steel casing.
- Straight blade impeller in sheet steel.

#### Motor:

- IE3 efficiency motors for powers equal to or greater than 0.75 kW except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400 V - 50 Hz (up to 4 kW) and 400/690 V - 50 Hz (powers higher than 4 kW).
- Maximum temperature of air to be carried: -25 °C +120 °C.

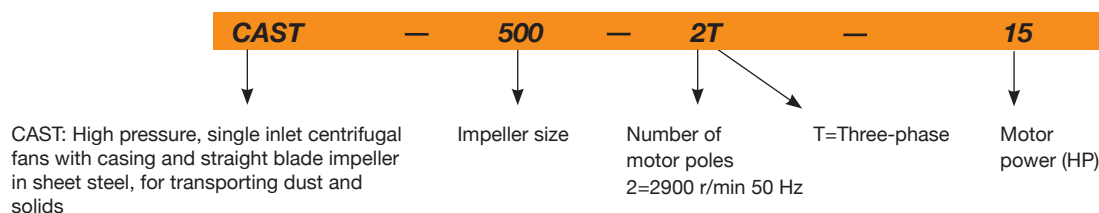
#### Finish:

- Anti-corrosive finish of polyester resin polymerised at 190 °C, previously degreased with phosphate-free nanotechnological treatment.

#### On request:

- Special windings for different voltages.
- Fan prepared for air transmission of up to 250 °C.
- ATEX-certified Category 2.
- System 8 elastic coupling.

## Order code



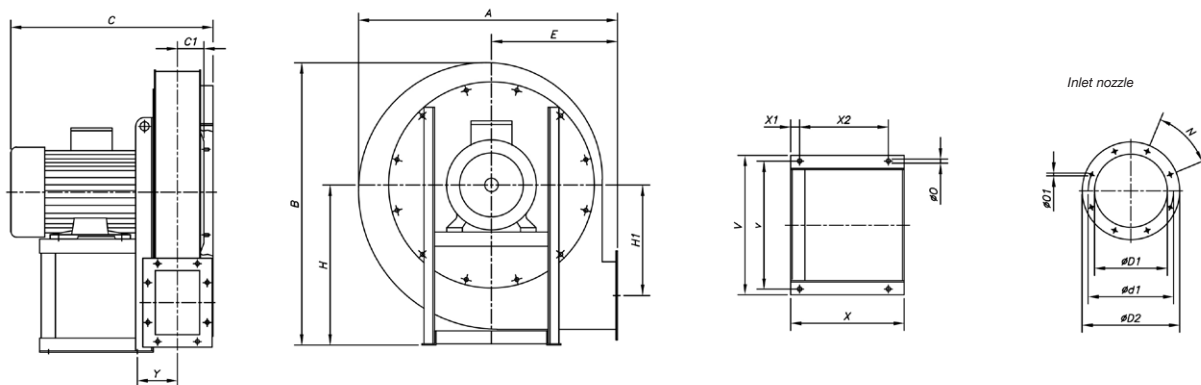
## Technical characteristics

| Model               | Speed<br>(r/min) | Maximum admissible current (A) |       |       | Installed power<br>(kW) | Maximum flow rate<br>(m³/h) | Sound pressure level<br>dB(A) | Approx. weight<br>(kg) |
|---------------------|------------------|--------------------------------|-------|-------|-------------------------|-----------------------------|-------------------------------|------------------------|
|                     |                  | 230 V                          | 400 V | 690 V |                         |                             |                               |                        |
| CAST-400-2T-3 IE3   | 2870             | 7.70                           | 4.43  |       | 2.20                    | 1330                        | 80                            | 45                     |
| CAST-450-2T-4 IE3   | 2910             | 10.00                          | 5.77  |       | 3.00                    | 1330                        | 82                            | 60                     |
| CAST-450-2T-5.5 IE3 | 2900             | 13.00                          | 7.50  |       | 4.00                    | 1910                        | 83                            | 65                     |
| CAST-500-2T-7.5 IE3 | 2930             |                                | 10.10 | 5.86  | 5.50                    | 2440                        | 85                            | 97                     |
| CAST-500-2T-10 IE3  | 2935             |                                | 13.90 | 8.06  | 7.50                    | 3470                        | 85                            | 103                    |
| CAST-560-2T-10 IE3  | 2935             |                                | 13.90 | 8.06  | 7.50                    | 2690                        | 89                            | 135                    |
| CAST-560-2T-15 IE3  | 2945             |                                | 20.00 | 11.60 | 11.00                   | 4360                        | 90                            | 158                    |
| CAST-630-2T-20 IE3  | 2945             |                                | 27.70 | 16.10 | 15.00                   | 3830                        | 93                            | 193                    |
| CAST-630-2T-25 IE3  | 2945             |                                | 33.90 | 19.70 | 18.50                   | 5510                        | 93                            | 203                    |
| CAST-710-2T-30 IE3  | 2950             |                                | 39.70 | 23.00 | 22.00                   | 4790                        | 96                            | 253                    |
| CAST-710-2T-40 IE3  | 2960             |                                | 54.50 | 31.60 | 30.00                   | 6970                        | 96                            | 365                    |
| CAST-710-2T-50 IE3  | 2960             |                                | 67.80 | 39.30 | 37.00                   | 8640                        | 96                            | 373                    |
| CAST-800-2T-50 IE3  | 2960             |                                | 67.80 | 39.30 | 37.00                   | 7790                        | 101                           | 415                    |
| CAST-800-2T-60 IE3  | 2960             |                                | 77.50 | 44.90 | 45.00                   | 7770                        | 101                           | 472                    |
| CAST-800-2T-75 IE3  | 2960             |                                | 95.60 | 55.40 | 55.00                   | 11000                       | 101                           | 554                    |
| CAST-800-4T-10 IE3  | 1465             |                                | 13.90 | 8.06  | 7.50                    | 6970                        | 81                            | 250                    |
| CAST-900-4T-15 IE3  | 1470             |                                | 20.90 | 12.10 | 11.00                   | 7790                        | 85                            | 440                    |
| CAST-900-4T-20 IE3  | 1465             |                                | 27.90 | 16.20 | 15.00                   | 8610                        | 86                            | 478                    |
| CAST-1000-4T-25 IE3 | 1470             |                                | 35.10 | 20.30 | 18.50                   | 10970                       | 88                            | 586                    |
| CAST-1000-4T-30 IE3 | 1470             |                                | 41.00 | 23.80 | 22.00                   | 12300                       | 89                            | 646                    |

## CENTRIFUGAL FANS AND IN-LINE DUCT EXTRACTOR FANS

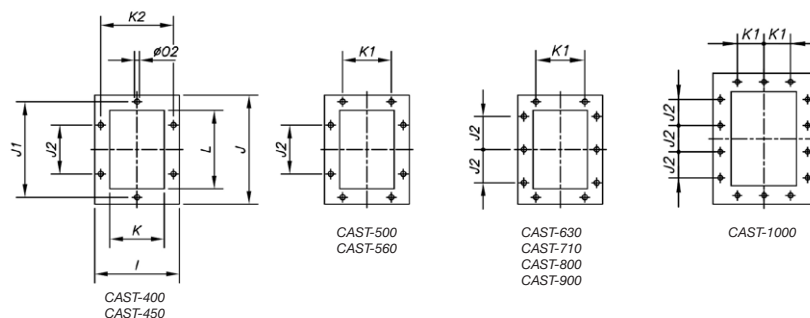
## Dimensions mm

## CAST-400...1000



|                 | A    | B    | C   | C1  | E   | H   | H1  | Ø0 | V   | v   | X   | x1 | x2  | Y   | ØD1 | ØD2 | Ød1 | ØO1 | N      |
|-----------------|------|------|-----|-----|-----|-----|-----|----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|--------|
| CAST-400-2T-3   | 590  | 658  | 425 | 71  | 280 | 375 | 238 | 12 | 276 | 234 | 205 | 30 | 140 | 93  | 185 | 250 | 219 | 8   | 8x45°  |
| CAST-450-2T-4   | 645  | 715  | 505 | 78  | 300 | 400 | 265 | 12 | 324 | 289 | 250 | 30 | 190 | 100 | 205 | 275 | 241 | 8   | 8x45°  |
| CAST-450-2T-5.5 | 645  | 715  | 505 | 78  | 300 | 400 | 265 | 12 | 324 | 289 | 250 | 30 | 190 | 100 | 205 | 275 | 241 | 8   | 8x45°  |
| CAST-500-2T-7.5 | 715  | 795  | 585 | 86  | 335 | 450 | 298 | 12 | 374 | 337 | 300 | 30 | 240 | 108 | 228 | 298 | 265 | 8   | 8x45°  |
| CAST-500-2T-10  | 715  | 795  | 585 | 86  | 335 | 450 | 298 | 12 | 374 | 337 | 300 | 30 | 240 | 108 | 228 | 298 | 265 | 8   | 8x45°  |
| CAST-560-2T-10  | 805  | 890  | 605 | 95  | 375 | 500 | 338 | 12 | 374 | 337 | 300 | 30 | 240 | 119 | 255 | 325 | 292 | 10  | 8x45°  |
| CAST-560-2T-15  | 805  | 890  | 740 | 95  | 375 | 500 | 338 | 12 | 444 | 395 | 415 | 30 | 355 | 119 | 255 | 325 | 292 | 10  | 8x45°  |
| CAST-630-2T-20  | 910  | 1000 | 760 | 105 | 425 | 560 | 381 | 12 | 444 | 395 | 415 | 30 | 355 | 129 | 285 | 365 | 332 | 10  | 8x45°  |
| CAST-630-2T-25  | 910  | 1000 | 760 | 105 | 425 | 560 | 381 | 12 | 444 | 395 | 415 | 30 | 355 | 129 | 285 | 365 | 332 | 10  | 8x45°  |
| CAST-710-2T-30  | 1015 | 1122 | 785 | 115 | 475 | 630 | 426 | 12 | 490 | 434 | 460 | 30 | 400 | 138 | 320 | 400 | 366 | 10  | 8x45°  |
| CAST-710-2T-40  | 1015 | 1122 | 860 | 115 | 475 | 630 | 426 | 12 | 568 | 506 | 500 | 30 | 440 | 138 | 320 | 400 | 366 | 10  | 8x45°  |
| CAST-710-2T-50  | 1015 | 1122 | 860 | 115 | 475 | 630 | 426 | 12 | 568 | 506 | 500 | 30 | 440 | 138 | 320 | 400 | 366 | 10  | 8x45°  |
| CAST-800-2T-50  | 1140 | 1265 | 885 | 127 | 530 | 710 | 481 | 20 | 568 | 506 | 500 | 30 | 440 | 151 | 360 | 440 | 405 | 10  | 8x45°  |
| CAST-800-2T-60  | 1140 | 1265 | 960 | 127 | 530 | 710 | 481 | 20 | 616 | 556 | 540 | 30 | 440 | 151 | 360 | 440 | 405 | 10  | 8x45°  |
| CAST-800-2T-75  | 1140 | 1265 | 960 | 127 | 530 | 710 | 481 | 20 | 690 | 604 | 600 | 30 | 540 | 151 | 360 | 440 | 405 | 10  | 8x45°  |
| CAST-800-4T-10  | 1140 | 1265 | 670 | 127 | 530 | 710 | 481 | 20 | 374 | 337 | 300 | 30 | 240 | 151 | 360 | 440 | 405 | 10  | 8x45°  |
| CAST-900-4T-15  | 1285 | 1428 | 835 | 141 | 600 | 800 | 542 | 20 | 444 | 395 | 415 | 30 | 355 | 166 | 405 | 485 | 448 | 10  | 12x30° |
| CAST-900-4T-20  | 1285 | 1428 | 835 | 141 | 600 | 800 | 542 | 20 | 444 | 395 | 415 | 30 | 355 | 166 | 405 | 485 | 448 | 10  | 12x30° |
| CAST-1000-4T-25 | 1430 | 1590 | 870 | 163 | 670 | 900 | 607 | 20 | 490 | 434 | 460 | 30 | 400 | 182 | 455 | 535 | 497 | 10  | 12x30° |
| CAST-1000-4T-30 | 1430 | 1590 | 945 | 163 | 670 | 900 | 607 | 20 | 490 | 434 | 460 | 30 | 400 | 182 | 455 | 535 | 497 | 10  | 12x30° |

## Outlet nozzle



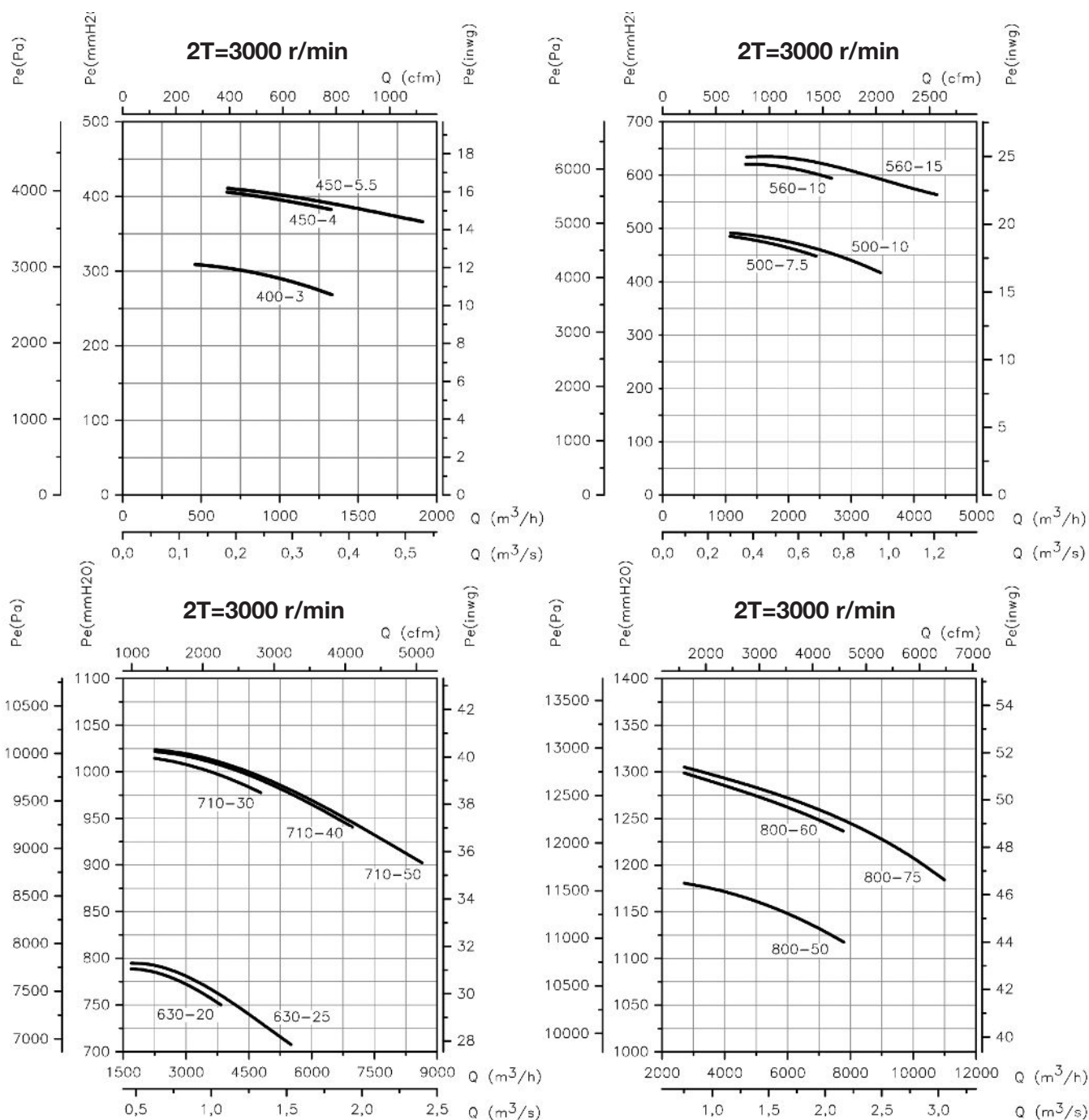
|           | I   | J   | J1  | J2  | K   | K1  | K2  | L   | ØO2 |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| CAST-400  | 187 | 236 | 200 | 112 | 117 | -   | 151 | 166 | 12  |
| CAST-450  | 201 | 255 | 219 | 112 | 131 | -   | 165 | 185 | 12  |
| CAST-500  | 218 | 277 | 241 | 112 | 148 | 112 | 182 | 207 | 12  |
| CAST-560  | 236 | 301 | 265 | 112 | 166 | 112 | 200 | 231 | 12  |
| CAST-630  | 255 | 328 | 292 | 112 | 185 | 112 | 219 | 258 | 12  |
| CAST-710  | 285 | 368 | 332 | 125 | 205 | 125 | 249 | 288 | 12  |
| CAST-800  | 309 | 402 | 366 | 125 | 229 | 125 | 273 | 322 | 12  |
| CAST-900  | 336 | 441 | 405 | 125 | 256 | 125 | 300 | 361 | 12  |
| CAST-1000 | 368 | 484 | 448 | 125 | 288 | 125 | 332 | 404 | 12  |



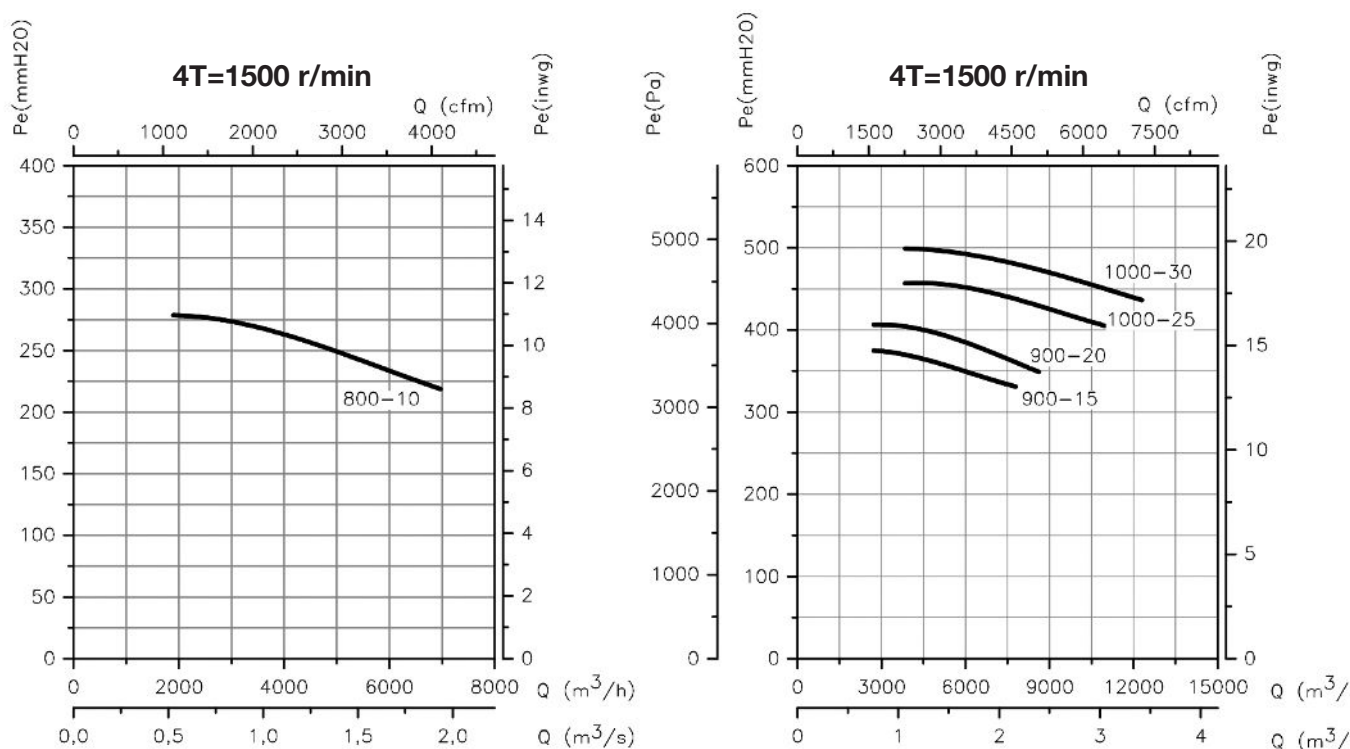
### Characteristic curves

Q= Flow rate in m<sup>3</sup>/h, m<sup>3</sup>/s and cfm

Pe= Static pressure in mm H<sub>2</sub>O, Pa and inwg



## CENTRIFUGAL FANS AND IN-LINE DUCT EXTRACTOR FANS

**Characteristic curves**Q= Flow rate in m<sup>3</sup>/h, m<sup>3</sup>/s and cfmPe= Static pressure in mm H<sub>2</sub>O, Pa and inwg**Orientation**

LG270 standard supply, other positions on request.

All models are adjustable. Special sizes in positions 180 and 225.

**Accessories**

See accessories section.

