| Engine type | Engine power | Heat rejection (kW), engine speed (rpm) | |
|---|---|---|---|
| | | 1,500 | 1,800 |
| DI13 075M | 285/285 kW | 203 | 207 |
| DI13 075M | 323/323 kW | 228 | 232 |
| DI13 075M | 323/376 kW | 228 | 269 |
| DI13 075M[1] | 323/376 kW | 194 | 216 |
| DI13 075M | 376/426 kW | 262 | 291 |
| DI13 075M[1] | 376/426 kW | 217 | 230 |
| DI13 075M | 426/426 kW | 284 | 291 |
| DI13 075M[1] | 426/426 kW | 231 | 230 |
| DI13 084M | 269 kW | - | 226 |
| DI13 084M[1] | 269 kW | - | 173 |
| DI13 084M | 323 kW | - | 258 |
| DI13 084M[1] | 323 kW | - | 190 |
| DI13 084M | 376 kW | - | 293 |
| DI13 084M[1] | 376 kW | - | 211 |
| DI13 084M | 426 kW | - | 331 |
| DI13 084M[1] | 426 kW | - | 236 |
| DI13 091M | 269/285 kW | 177 | 190 |
| DI13 091M[1] | 269/285 kW | 154 | 161 |
| DI13 091M | 285/323 kW | 187 | 212 |
| DI13 091M[1] | 285/323 kW | 162 | 175 |
| DI13 091M | 323/374 kW | 210 | 242 |
| DI13 091M[1] | 323/374 kW | 177 | 194 |
| DI13 091M | 374/426 kW | 240 | 276 |
| DI13 091M[1] | 374/426 kW | 196 | 215 |
| DI13 091M | 426/426 kW | 277 | 276 |



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| Engine type | Engine power | Heat rejection (kW), engine speed (rpm) | |
|---|---|---|---|
| | | 1,500 | 1,800 |
| DI13 091M[1] | 426/426 kW | 218 | 215 |
| DI16 074M | 430/468 kW | 315 | 360 |
| DI16 074M | 450/511 kW | 328 | 386 |
| DI16 074M | 480/553 kW | 351 | 416 |
| DI16 074M | 511/596 kW | 376 | 449 |
| DI16 075M | 430/468 kW | 269 | 293 |
| DI16 075M | 450/511 kW | 278 | 315 |
| DI16 075M | 480/553 kW | 294 | 335 |
| DI16 075M | 511/596 kW | 312 | 361 |
| DI16 084M | 468 kW | - | 386 |
| DI16 084M[1] | 468 kW | - | 296 |
| DI16 085M | 522 kW | - | 424 |
| DI16 085M[1] | 522 kW | - | 322 |
| DI16 085M | 553 kW | - | 444 |
| DI16 085M[1] | 553 kW | - | 335 |
| DI16 090M | 430/468 kW | 325 | 359 |
| DI16 090M[1] | 430/468 kW | 272 | 283 |
| DI16 090M | 450/511 kW | 339 | 394 |
| DI16 090M[1] | 450/511 kW | 282 | 308 |
| DI16 090M | 480/553 kW | 362 | 427 |
| DI16 090M[1] | 480/553 kW | 298 | 331 |
| DI16 090M | 511/596 kW | 386 | 465 |
| DI16 090M[1] | 511/596 kW | 315 | 358 |
| DI16 090M | 535/640 kW | 406 | 501 |
| DI16 090M[1] | 535/640 kW | 329 | 384 |



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| Engine type | Engine power | Heat rejection (kW), engine speed (rpm) | |
|---|---|---|---|
| | | 1,500 | 1,800 |
| DI16 091M | 430/468 kW | 320 | 354 |
| DI16 091M[1] | 430/468 kW | 273 | 293 |
| DI16 091M | 450/511 kW | 335 | 386 |
| DI16 091M[1] | 450/511 kW | 284 | 315 |
| DI16 091M | 480/553 kW | 359 | 418 |
| DI16 091M[1] | 480/553 kW | 302 | 338 |
| DI16 091M | 480/596 kW | 359 | 457 |
| DI16 091M[1] | 480/596 kW | 302 | 366 |

1. Engines with keel cooling and two cooling circuits.



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# Heat rejection in a separate charge air cooling circuit

## All-speed engines

Table of heat rejection in kW in a separate charge air cooling circuit. The table applies to all-speed engines with keel cooling and 2 coolant circuits.

Ambient conditions: 25°C, 1,013 mbar.

| Engine type | Engine power | Heat rejection in the charge air coolant circuit (kW), engine speed (rpm) | | | | |
|---|---|---|---|---|---|---|
| | | 1,200 | 1,500 | 1,800 | 2,100 | 2,300 |
| DI09 070M | 162 kW/220 hp | 15 | 18 | 26 | - | - |
| DI09 070M | 184 kW/250 hp | 18 | 22 | 31 | - | - |
| DI09 070M | 221 kW/300 hp | 23 | 29 | 35 | - | - |
| DI09 070M | 257 kW/350 hp | 23 | 31 | 35 | - | - |
| DI09 072M | 221 kW/300 hp | 20 | 29 | 35 | 36 | - |
| DI09 072M | 257 kW/350 hp | 20 | 35 | 39 | 41 | - |
| DI09 072M | 294 kW/400 hp | 20 | 35 | 42 | 49 | - |
| DI13 080M | 162 kW/220 hp | 6 | 13 | 25 | - | - |
| DI13 080M | 184 kW/250 hp | 9 | 17 | 28 | - | - |
| DI13 080M | 221 kW/300 hp | 20 | 26 | 26[1] | | |
| DI13 080M | 221 kW/300 hp | 12 | 24 | 35 | - | - |
| DI13 080M | 249 kW/338 hp | 16 | 29 | 42 | - | - |
| DI13 080M | 257 kW/350 hp | 17 | 31 | 45 | - | - |
| DI13 080M | 294 kW/400 hp | 22 | 40 | 57 | - | - |
| DI13 081M | 162 kW/220 hp | 7 | 14 | 27 | - | - |
| DI13 081M | 331 kW/450 hp | 30 | 51 | 69 | - | - |
| DI13 081M | 368 kW/500 hp | 37 | 63 | 79 | - | - |



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| Engine type | Engine power | Heat rejection in the charge air coolant circuit (kW), engine speed (rpm) | | | | |
|---|---|---|---|---|---|---|
| | | 1,200 | 1,500 | 1,800 | 2,100 | 2,300 |
| DI13 082M | 331 kW/450 hp | 16 | 40 | 55 | 76 | - |
| DI13 082M | 368 kW/500 hp | 21 | 48 | 66 | 85 | - |
| DI13 083M | 405 kW/550 hp | 14 | 43 | 63 | 88 | - |
| DI13 083M | 441 kW/600 hp | 14 | 50 | 73 | 99 | - |
| DI13 085M | 478 kW/650 hp | 15 | 49 | 73 | 101 | 120 |
| DI13 092M | 257 kW/345 hp | 12 | 21 | 29 | - | - |
| DI13 092M | 294 kW/395 hp | 16 | 27 | 36 | - | - |
| DI13 092M | 331 kW/445 hp | 21 | 35 | 45 | - | - |
| DI13 092M | 368 kW/495 hp | 26 | 43 | 55 | - | - |
| DI13 092M | 405 kW/545 hp | 33 | 54 | 65 | - | - |
| DI16 073M | 478 kW/650 hp | 17 | 52 | 68 | 93 | - |
| DI16 073M | 515 kW/700 hp | 20 | 58 | 74 | 101 | - |
| DI16 073M | 552 kW/750 hp | 24 | 63 | 81 | 109 | - |
| DI16 073M | 588 kW/800 hp | 25 | 67 | 88 | 118 | - |
| DI16 079M | 405 kW/550 hp | 25 | 45 | 63 | - | - |
| DI16 079M | 460 kW/625 hp | 32 | 54 | 73 | - | - |
| DI16 079M | 515 kW/700 hp | 41 | 65 | 82 | - | - |
| DI16 079M | 552 kW/750 hp | 44 | 72 | 91 | - | - |

1. 1,600 rpm.



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| Engine type | Engine power | Heat rejection in the charge air coolant circuit (kW), engine speed (rpm) | | | | |
|---|---|---|---|---|---|---|
| | | 1,200 | 1,500 | 1,800 | 2,100 | 2,300 |
| DI16 080M | 221 kW/300 hp | 9 | 16 | 31 | - | - |
| DI16 080M | 257 kW/350 hp | 12 | 22 | 41 | - | - |
| DI16 080M | 294 kW/400 hp | 16 | 28 | 50 | - | - |
| DI16 080M | 331 kW/450 hp | 20 | 36 | 60 | - | - |
| DI16 080M | 405 kW/550 hp | 29 | 53 | 77 | - | - |
| DI16 080M | 460 kW/625 hp | 34 | 65 | 88 | - | - |
| DI16 080M | 515 kW/700 hp | 35 | 79 | 99 | - | - |
| DI16 081M | 478 kW/650 hp | 18 | 46 | 77 | 112 | - |
| DI16 081M | 515 kW/700 hp | 21 | 52 | 82 | 119 | - |
| DI16 082M | 588 kW/800 hp | 26 | 62 | 96 | 138 | - |



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## Single-speed engines

Table of heat rejection in kW in a separate charge air cooling circuit. The table applies to single-speed engines with keel cooling and two cooling circuits as well as to single-speed engines without heat exchanger with or without coolant-cooled charge air cooler.

Ambient conditions: 25°C, 1,013 mbar.

| Engine type | Engine power | Heat rejection in the charge air coolant circuit (kW), engine speed (rpm) | |
|---|---|---|---|
| | | 1,500 | 1,800 |
| DI09 074M | 199/199 kW | 26 | 31 |
| DI09 074M | 217/217 kW | 30 | 31 |
| DI09 074M | 269/269 kW | 34 | 38 |
| DI09 074M | 269/323 kW | 34 | 44 |
| DI13 075M | 323/376 kW | 34 | 53 |
| DI13 075M | 376/426 kW | 45 | 61 |
| DI13 075M | 426/426 kW | 53 | 61 |
| DI13 084M | 269 kW | - | 53 |
| DI13 084M | 323 kW | - | 68 |
| DI13 084M | 376 kW | - | 82 |
| DI13 084M | 426 kW | - | 95 |
| DI13 091M | 269/285 kW | 23 | 29 |
| DI13 091M | 285/323 kW | 25 | 36 |
| DI13 091M | 323/374 kW | 32 | 48 |
| DI13 091M | 374/426 kW | 44 | 61 |
| DI13 091M | 426/426 kW | 58 | 61 |
| DI16 075M | 430/468 kW | 56 | 78 |
| DI16 075M | 450/511 kW | 60 | 86 |



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| Engine type | Engine power | Heat rejection in the charge air coolant circuit (kW), engine speed (rpm) | |
|---|---|---|---|
| | | 1,500 | 1,800 |
| DI16 075M | 480/553 kW | 67 | 94 |
| DI16 075M | 511/596 kW | 74 | 104 |
| DI16 084M | 468 kW | - | 90 |
| DI16 085M | 522 kW | - | 102 |
| DI16 085M | 553 kW | - | 109 |
| DI16 090M | 430/468 kW | 53 | 76 |
| DI16 090M | 450/511 kW | 57 | 86 |
| DI16 090M | 480/553 kW | 64 | 96 |
| DI16 090M | 511/596 kW | 71 | 107 |
| DI16 090M | 535/640 kW | 77 | 117 |
| DI16 091M | 430/468 kW | 46 | 60 |
| DI16 091M | 450/511 kW | 51 | 71 |
| DI16 091M | 480/553 kW | 57 | 80 |
| DI16 091M | 480/596 kW | 57 | 91 |



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# Air consumption

## All-speed engines

Table of air consumption in kg/min for an all-speed engine with full engine power.

Ambient conditions: 25°C, 1,013 mbar.

| Engine type | Engine power | Air consumption (kg/min), engine speed (rpm) | | | | |
|---|---|---|---|---|---|---|
| | | 1,200 | 1,500 | 1,800 | 2,100 | 2,300 |
| DI09 070M | 162 kW/220 hp | 12 | 15 | 18 | - | - |
| DI09 070M | 184 kW/250 hp | 12 | 16 | 20 | - | - |
| DI09 070M | 221 kW/300 hp | 14 | 18 | 21 | - | - |
| DI09 070M | 257 kW/350 hp | 14 | 18 | 21 | - | - |
| DI09 072M | 221 kW/300 hp | 13 | 17 | 21 | 22 | - |
| DI09 072M | 257 kW/350 hp | 13 | 19 | 22 | 23 | - |
| DI09 072M | 294 kW/400 hp | 13 | 19 | 22 | 25 | - |
| DI13 070M | 294 kW/400 hp | 16 | 23 | 29 | - | - |
| DI13 070M | 331 kW/450 hp | 18 | 25 | 31 | - | - |
| DI13 070M | 368 kW/500 hp | 19 | 27 | 32 | - | - |
| DI13 070M | 405 kW/550 hp | 21 | 29 | 33 | - | - |
| DI13 071M | 294 kW/400 hp | 16 | 23 | 29 | - | - |
| DI13 071M | 331 kW/450 hp | 18 | 25 | 31 | - | - |
| DI13 071M | 368 kW/500 hp | 19 | 27 | 32 | - | - |
| DI13 072M | 441 kW/600 hp | 16 | 27 | 35 | 41 | 45 |
| DI13 072M | 478 kW/650 hp | 16 | 29 | 36 | 43 | 47 |
| DI13 073M | 331 kW/450 hp | 14 | 23 | 28 | 35 | - |
| DI13 073M | 368 kW/500 hp | 15 | 24 | 30 | 35 | - |



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| Engine type | Engine power | Air consumption (kg/min), engine speed (rpm) | | | | |
|---|---|---|---|---|---|---|
| | | 1,200 | 1,500 | 1,800 | 2,100 | 2,300 |
| DI13 073M | 405 kW/550 hp | 16 | 26 | 31 | 36 | - |
| DI13 077M | 515 kW/700 hp | 17 | 29 | 38 | 43 | 46 |
| DI13 077M | 551 kW/750 hp | 17 | 30 | 39 | 45 | 47 |
| DI13 078M | 331 kW/450 hp | 15 | 25 | 29 | 34 | - |
| DI13 078M | 368 kW/500 hp | 16 | 26 | 31 | 35 | - |
| DI13 078M | 405 kW/550 hp | 16 | 28 | 32 | 36 | - |
| DI13 080M | 162 kW/220 hp | 11 | 16 | 22 | - | - |
| DI13 080M | 184 kW/250 hp | 12 | 17 | 23 | - | - |
| DI13 080M | 221 kW/300 hp | 16 | 20 | 21[1] | | |
| DI13 080M | 221 kW/300 hp | 13 | 19 | 25 | - | - |
| DI13 080M | 249 kW/338 hp | 15 | 21 | 26 | - | - |
| DI13 080M | 257 kW/350 hp | 15 | 21 | 27 | - | - |
| DI13 080M | 294 kW/400 hp | 17 | 24 | 29 | - | - |
| DI13 081M | 162 kW/220 hp | 12 | 16 | 23 | - | - |
| DI13 081M | 331 kW/450 hp | 19 | 26 | 32 | - | - |
| DI13 081M | 368 kW/500 hp | 20 | 29 | 33 | - | - |
| DI13 082M | 331 kW/450 hp | 15 | 24 | 30 | 35 | - |
| DI13 082M | 368 kW/500 hp | 16 | 26 | 32 | 36 | - |
| DI13 083M | 405 kW/550 hp | 14 | 24 | 32 | 40 | - |
| DI13 083M | 441 kW/600 hp | 14 | 25 | 34 | 42 | - |
| DI13 085M | 478 kW/650 hp | 14 | 25 | 34 | 42 | 46 |
| DI13 086M | 441 kW/600 hp | 15 | 25 | 34 | 42 | 46 |
| DI13 086M | 496 kW/675 hp | 16 | 28 | 36 | 44 | 48 |
| DI13 092M | 257 kW/345 hp | 13 | 19 | 23 | - | - |
| DI13 092M | 294 kW/395 hp | 15 | 21 | 26 | - | - |



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| Engine type | Engine power | Air consumption (kg/min), engine speed (rpm) | | | | |
|---|---|---|---|---|---|---|
| | | 1,200 | 1,500 | 1,800 | 2,100 | 2,300 |
| DI13 092M | 331 kW/445 hp | 16 | 23 | 28 | - | - |
| DI13 092M | 368 kW/495 hp | 18 | 25 | 30 | - | - |
| DI13 092M | 405 kW/545 hp | 19 | 27 | 31 | - | - |
| DI16 070M | 405 kW/550 hp | 20 | 29 | 39 | - | - |
| DI16 070M | 460 kW/625 hp | 22 | 32 | 41 | - | - |
| DI16 070M | 515 kW/700 hp | 24 | 34 | 43 | - | - |
| DI16 070M | 552 kW/750 hp | 25 | 36 | 44 | - | - |
| DI16 071M | 405 kW/550 hp | 18 | 27 | 36 | - | - |
| DI16 071M | 460 kW/625 hp | 19 | 30 | 38 | - | - |
| DI16 072M | 478 kW/650 hp | 18 | 30 | 40 | 51 | - |
| DI16 072M | 515 kW/700 hp | 19 | 32 | 41 | 52 | - |
| DI16 072M | 552 kW/750 hp | 19 | 33 | 42 | 54 | - |
| DI16 072M | 588 kW/800 hp[2] | 20 | 34 | 44 | 54 | - |
| DI16 072M | 588 kW/800 hp[3] | 19 | 33 | 43 | 54 | 58 |
| DI16 072M | 625 kW/850 hp | 19 | 34 | 44 | 55 | 59 |
| DI16 072M | 662 kW/900 hp | 20 | 34 | 46 | 56 | 60 |
| DI16 073M | 478 kW/650 hp | 18 | 31 | 39 | 49 | - |
| DI16 073M | 515 kW/700 hp | 18 | 32 | 40 | 50 | - |
| DI16 073M | 552 kW/750 hp | 19 | 33 | 42 | 52 | - |
| DI16 073M | 588 kW/800 hp | 19 | 34 | 44 | 53 | - |
| DI16 076M | 662 kW/900 hp | 20 | 29 | 40 | 55 | 57 |
| DI16 076M | 736 kW/1,000 hp | 20 | 32 | 44 | 57 | 60 |
| DI16 076M | 809 kW/1,100 hp | 20 | 33 | 47 | 60 | 63 |
| DI16 076M | 846 kW/1,150 hp | 20 | 33 | 49 | 60 | 64 |
| DI16 077M | 662 kW/900 hp | 18 | 29 | 43 | 55 | 59 |



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| Engine type | Engine power | Air consumption (kg/min), engine speed (rpm) | | | | |
|---|---|---|---|---|---|---|
| | | 1,200 | 1,500 | 1,800 | 2,100 | 2,300 |
| DI16 077M | 736 kW/1,000 hp | 18 | 29 | 44 | 58 | 61 |
| DI16 079M | 405 kW/550 hp | 20 | 29 | 38 | - | - |
| DI16 079M | 460 kW/625 hp | 22 | 31 | 40 | - | - |
| DI16 079M | 515 kW/700 hp | 24 | 34 | 42 | - | - |
| DI16 079M | 552 kW/750 hp | 24 | 35 | 44 | - | - |
| DI16 080M | 221 kW/300 hp | 15 | 21 | 29 | - | - |
| DI16 080M | 257 kW/350 hp | 16 | 22 | 31 | - | - |
| DI16 080M | 294 kW/400 hp | 17 | 24 | 34 | - | - |
| DI16 080M | 331 kW/450 hp | 19 | 26 | 36 | - | - |
| DI16 080M | 405 kW/550 hp | 21 | 30 | 40 | - | - |
| DI16 080M | 460 kW/625 hp | 22 | 33 | 42 | - | - |
| DI16 080M | 515 kW/700 hp | 22 | 36 | 44 | - | - |
| DI16 081M | 478 kW/650 hp | 18 | 29 | 41 | 50 | - |
| DI16 081M | 515 kW/700 hp | 19 | 31 | 42 | 51 | - |
| DI16 082M | 588 kW/800 hp | 20 | 33 | 44 | 54 | - |
| DI16 083M | 588 kW/800 hp | 19 | 32 | 44 | 56 | 61 |
| DI16 083M | 625 kW/850 hp | 20 | 33 | 46 | 57 | 62 |
| DI16 083M | 662 kW/900 hp | 20 | 35 | 47 | 58 | 62 |

1. 1,600 rpm.

2. IFN classification.

3. Patrol craft long classification.



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## Single-speed engines

Table of air consumption in kg/min for a single-speed engine at full power according to power level MAP (Marine Auxiliary Power).

Ambient conditions: 25°C, 1,013 mbar.

| Engine type | Engine power | Air consumption (kg/min), engine speed (rpm) | |
|---|---|---|---|
| | | 1,500 | 1,800 |
| DI09 074M | 199/199 kW | 17 | 20 |
| DI09 074M | 217/217 kW | 18 | 20 |
| DI09 074M | 269/269 kW | 19 | 21 |
| DI09 074M | 269/323 kW | 19 | 22 |
| DI13 074M | 285/285 kW | 24 | 28 |
| DI13 074M | 323/323 kW | 26 | 30 |
| DI13 074M | 323/376 kW | 26 | 33 |
| DI13 074M | 376/426 kW | 29 | 34 |
| DI13 074M | 426/426 kW | 31 | 34 |
| DI13 075M | 285/285 kW | 23 | 28 |
| DI13 075M | 323/323 kW | 25 | 30 |
| DI13 075M | 323/376 kW | 25 | 33 |
| DI13 075M | 376/426 kW | 27 | 34 |
| DI13 075M | 426/426 kW | 29 | 34 |
| DI13 084M | 269 kW | - | 29 |
| DI13 084M | 323 kW | - | 32 |
| DI13 084M | 376 kW | - | 35 |
| DI13 084M | 426 kW | - | 36 |
| DI13 091M | 269/285 kW | 19 | 24 |
| DI13 091M | 285/323 kW | 20 | 26 |



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| Engine type | Engine power | Air consumption (kg/min), engine speed (rpm) | |
|---|---|---|---|
| | | 1,500 | 1,800 |
| DI13 091M | 323/374 kW | 22 | 29 |
| DI13 091M | 374/426 kW | 25 | 32 |
| DI13 091M | 426/426 kW | 28 | 32 |
| DI16 074M | 430/468 kW | 32 | 42 |
| DI16 074M | 450/511 kW | 33 | 43 |
| DI16 074M | 480/553 kW | 35 | 45 |
| DI16 074M | 511/596 kW | 36 | 47 |
| DI16 075M | 430/468 kW | 32 | 42 |
| DI16 075M | 450/511 kW | 33 | 43 |
| DI16 075M | 480/553 kW | 35 | 45 |
| DI16 075M | 511/596 kW | 36 | 47 |
| DI16 084M | 468 kW | - | 43 |
| DI16 085M | 522 kW | - | 45 |
| DI16 085M | 553 kW | - | 46 |
| DI16 090M | 430/468 kW | 30 | 40 |
| DI16 090M | 450/511 kW | 31 | 42 |
| DI16 090M | 480/553 kW | 33 | 44 |
| DI16 090M | 511/596 kW | 34 | 46 |
| DI16 090M | 535/640 kW | 36 | 47 |
| DI16 091M | 430/468 kW | 29 | 36 |
| DI16 091M | 450/511 kW | 30 | 38 |
| DI16 091M | 480/553 kW | 32 | 40 |
| DI16 091M | 480/596 kW | 32 | 42 |



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# Radiated heat

## All-speed engines

Table of radiated heat in kW for an all-speed engine with full engine power.

Ambient conditions: 25°C, 1,013 mbar.

| Engine type | Engine power | Radiated heat (kW), engine speed (rpm) | | | | |
|---|---|---|---|---|---|---|
| | | 1,200 | 1,500 | 1,800 | 2,100 | 2,300 |
| DI09 070M | 162 kW/220 hp | 8 | 8 | 8 | - | - |
| DI09 070M | 184 kW/250 hp | 9 | 8 | 9 | - | - |
| DI09 070M | 221 kW/300 hp | 10 | 10 | 10 | - | - |
| DI09 070M | 257 kW/350 hp | 10 | 12 | 12 | - | - |
| DI09 072M | 221 kW/300 hp | 10 | 10 | 10 | 11 | - |
| DI09 072M | 257 kW/350 hp | 10 | 12 | 12 | 13 | - |
| DI09 072M | 294 kW/400 hp | 10 | 12 | 14 | 15 | - |
| DI13 070M | 294 kW/400 hp | 11 | 13 | 14 | - | - |
| DI13 070M | 331 kW/450 hp | 12 | 14 | 16 | - | - |
| DI13 070M | 368 kW/500 hp | 13 | 16 | 18 | - | - |
| DI13 070M | 405 kW/550 hp | 15 | 18 | 19 | - | - |
| DI13 071M | 294 kW/400 hp | 11 | 13 | 14 | - | - |
| DI13 071M | 331 kW/450 hp | 13 | 15 | 16 | - | - |
| DI13 071M | 368 kW/500 hp | 14 | 16 | 18 | - | - |
| DI13 072M | 441 kW/600 hp | 13 | 18 | 19 | 21 | 22 |
| DI13 072M | 478 kW/650 hp | 13 | 20 | 21 | 23 | 24 |
| DI13 073M | 331 kW/450 hp | 10 | 14 | 15 | 18 | - |
| DI13 073M | 368 kW/500 hp | 11 | 15 | 17 | 19 | - |



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| Engine type | Engine power | Radiated heat (kW), engine speed (rpm) | | | | |
|---|---|---|---|---|---|---|
| | | 1,200 | 1,500 | 1,800 | 2,100 | 2,300 |
| DI13 073M | 405 kW/550 hp | 12 | 17 | 18 | 21 | - |
| DI13 077M | 515 kW/700 hp | 13 | 21 | 23 | 26 | 27 |
| DI13 077M | 551 kW/750 hp | 13 | 22 | 25 | 28 | 29 |
| DI13 078M | 331 kW/450 hp | 10 | 14 | 15 | 17 | - |
| DI13 078M | 368 kW/500 hp | 11 | 15 | 16 | 18 | - |
| DI13 078M | 405 kW/550 hp | 11 | 17 | 18 | 20 | - |
| DI13 080M | 162 kW/220 hp | 6 | 8 | 9 | - | - |
| DI13 080M | 184 kW/250 hp | 7 | 9 | 10 | - | - |
| DI13 080M | 221 kW/300 hp | 10 | 11 | 10[1] | - | - |
| DI13 080M | 221 kW/300 hp | 8 | 10 | 11 | - | - |
| DI13 080M | 249 kW/338 hp | 9 | 11 | 12 | - | - |
| DI13 080M | 257 kW/350 hp | 10 | 12 | 13 | - | - |
| DI13 080M | 294 kW/400 hp | 11 | 13 | 14 | - | - |
| DI13 081M | 162 kW/220 hp | 6 | 8 | 9 | - | - |
| DI13 081M | 331 kW/450 hp | 12 | 15 | 16 | - | - |
| DI13 081M | 368 kW/500 hp | 14 | 16 | 18 | - | - |
| DI13 082M | 331 kW/450 hp | 10 | 14 | 15 | 17 | - |
| DI13 082M | 368 kW/500 hp | 11 | 15 | 17 | 19 | - |
| DI13 083M | 405 kW/550 hp | 10 | 17 | 19 | 21 | - |
| DI13 083M | 441 kW/600 hp | 10 | 18 | 20 | 22 | - |
| DI13 085M | 478 kW/650 hp | 11 | 19 | 21 | 23 | 25 |
| DI13 086M | 441 kW/600 hp | 12 | 18 | 20 | 22 | 23 |
| DI13 086M | 496 kW/675 hp | 13 | 20 | 22 | 24 | 26 |
| DI13 092M | 257 kW/345 hp | 9 | 11 | 12 | - | - |
| DI13 092M | 294 kW/395 hp | 11 | 13 | 14 | - | - |



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| Engine type | Engine power | Radiated heat (kW), engine speed (rpm) | | | | |
|---|---|---|---|---|---|---|
| | | 1,200 | 1,500 | 1,800 | 2,100 | 2,300 |
| DI13 092M | 331 kW/445 hp | 12 | 14 | 15 | - | - |
| DI13 092M | 368 kW/495 hp | 13 | 16 | 17 | - | - |
| DI13 092M | 405 kW/545 hp | 15 | 18 | 19 | - | - |
| DI16 070M | 405 kW/550 hp | 15 | 18 | 20 | - | - |
| DI16 070M | 460 kW/625 hp | 17 | 21 | 22 | - | - |
| DI16 070M | 515 kW/700 hp | 20 | 23 | 25 | - | - |
| DI16 070M | 552 kW/750 hp | 21 | 25 | 26 | - | - |
| DI16 071M | 405 kW/550 hp | 15 | 19 | 20 | - | - |
| DI16 071M | 460 kW/625 hp | 16 | 22 | 23 | - | - |
| DI16 072M | 478 kW/650 hp | 13 | 19 | 21 | 24 | - |
| DI16 072M | 515 kW/700 hp | 14 | 20 | 22 | 26 | - |
| DI16 072M | 552 kW/750 hp | 15 | 21 | 24 | 28 | - |
| DI16 072M | 588 kW/800 hp[2] | 15 | 22 | 25 | 29 | - |
| DI16 072M | 588 kW/800 hp[3] | 14 | 21 | 24 | 29 | 30 |
| DI16 072M | 625 kW/850 hp | 15 | 22 | 25 | 31 | 32 |
| DI16 072M | 662 kW/900 hp | 16 | 23 | 27 | 32 | 34 |
| DI16 073M | 478 kW/650 hp | 13 | 20 | 22 | 24 | - |
| DI16 073M | 515 kW/700 hp | 14 | 21 | 23 | 26 | - |
| DI16 073M | 552 kW/750 hp | 15 | 22 | 25 | 28 | - |
| DI16 073M | 588 kW/800 hp | 16 | 23 | 26 | 30 | - |
| DI16 076M | 662 kW/900 hp | 18 | 25 | 29 | 34 | 34 |
| DI16 076M | 736 kW/1,000 hp | 18 | 28 | 32 | 37 | 38 |
| DI16 076M | 809 kW/1,100 hp | 18 | 29 | 35 | 40 | 42 |
| DI16 076M | 846 kW/1,150 hp | 18 | 29 | 37 | 43 | 44 |
| DI16 077M | 662 kW/900 hp | 15 | 21 | 27 | 33 | 35 |



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| Engine type | Engine power | Radiated heat (kW), engine speed (rpm) | | | | |
|---|---|---|---|---|---|---|
| | | 1,200 | 1,500 | 1,800 | 2,100 | 2,300 |
| DI16 077M | 736 kW/1,000 hp | 15 | 21 | 29 | 37 | 37 |
| DI16 079M | 405 kW/550 hp | 15 | 18 | 20 | - | - |
| DI16 079M | 460 kW/625 hp | 17 | 21 | 23 | - | - |
| DI16 079M | 515 kW/700 hp | 20 | 23 | 25 | - | - |
| DI16 079M | 552 kW/750 hp | 21 | 25 | 27 | - | - |
| DI16 080M | 221 kW/300 hp | 9 | 11 | 12 | - | - |
| DI16 080M | 257 kW/350 hp | 10 | 12 | 14 | - | - |
| DI16 080M | 294 kW/400 hp | 12 | 14 | 16 | - | - |
| DI16 080M | 331 kW/450 hp | 13 | 16 | 18 | - | - |
| DI16 080M | 405 kW/550 hp | 16 | 19 | 21 | - | - |
| DI16 080M | 460 kW/625 hp | 17 | 21 | 23 | - | - |
| DI16 080M | 515 kW/700 hp | 18 | 24 | 26 | - | - |
| DI16 081M | 478 kW/650 hp | 13 | 18 | 22 | 25 | - |
| DI16 081M | 515 kW/700 hp | 14 | 20 | 23 | 27 | - |
| DI16 082M | 588 kW/800 hp | 16 | 22 | 26 | 31 | - |
| DI16 083M | 588 kW/800 hp | 14 | 20 | 24 | 30 | 32 |
| DI16 083M | 625 kW/850 hp | 15 | 22 | 26 | 32 | 34 |
| DI16 083M | 662 kW/900 hp | 16 | 23 | 27 | 33 | 36 |

1. 1,600 rpm.

2. IFN classification.

3. Patrol craft long classification.



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## Single-speed engines

Table of radiated heat in kW for a single-speed engine at full power according to power level MAP (Marine Auxiliary Power).

Ambient conditions: 25°C, 1,013 mbar.

| Engine type | Engine power | Radiated heat (kW), engine speed (rpm) | |
|---|---|---|---|
| | | 1,500 | 1,800 |
| DI09 074M | 199/199 kW | 9 | 9 |
| DI09 074M | 217/217 kW | 10 | 10 |
| DI09 074M | 269/269 kW | 13 | 13 |
| DI09 074M | 269/323 kW | 13 | 16 |
| DI13 074M | 285/285 kW | 14 | 14 |
| DI13 074M | 323/323 kW | 15 | 16 |
| DI13 074M | 323/376 kW | 15 | 18 |
| DI13 074M | 376/426 kW | 18 | 21 |
| DI13 074M | 426/426 kW | 20 | 21 |
| DI13 075M | 285/285 kW | 14 | 14 |
| DI13 075M | 323/323 kW | 16 | 16 |
| DI13 075M | 323/376 kW | 16 | 19 |
| DI13 075M | 376/426 kW | 18 | 21 |
| DI13 075M | 426/426 kW | 20 | 21 |
| DI13 084M | 269 kW | - | 14 |
| DI13 084M | 323 kW | - | 16 |
| DI13 084M | 376 kW | - | 19 |
| DI13 084M | 426 kW | - | 21 |
| DI13 091M | 269/285 kW | 12 | 13 |
| DI13 091M | 285/323 kW | 13 | 15 |



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| Engine type | Engine power | Radiated heat (kW), engine speed (rpm) | |
|---|---|---|---|
| | | 1,500 | 1,800 |
| DI13 091M | 323/374 kW | 15 | 17 |
| DI13 091M | 374/426 kW | 17 | 20 |
| DI13 091M | 426/426 kW | 20 | 20 |
| DI16 074M | 430/468 kW | 20 | 23 |
| DI16 074M | 450/511 kW | 21 | 25 |
| DI16 074M | 480/553 kW | 23 | 27 |
| DI16 074M | 511/596 kW | 24 | 29 |
| DI16 075M | 430/468 kW | 21 | 23 |
| DI16 075M | 450/511 kW | 21 | 25 |
| DI16 075M | 480/553 kW | 23 | 27 |
| DI16 075M | 511/596 kW | 24 | 29 |
| DI16 084M | 468 kW | - | 24 |
| DI16 085M | 522 kW | - | 26 |
| DI16 085M | 553 kW | - | 28 |
| DI16 090M | 430/468 kW | 20 | 22 |
| DI16 090M | 450/511 kW | 21 | 24 |
| DI16 090M | 480/553 kW | 22 | 26 |
| DI16 090M | 511/596 kW | 24 | 29 |
| DI16 090M | 535/640 kW | 25 | 31 |
| DI16 091M | 430/468 kW | 21 | 23 |
| DI16 091M | 450/511 kW | 22 | 25 |
| DI16 091M | 480/553 kW | 23 | 27 |
| DI16 091M | 480/596 kW | 23 | 30 |



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# Maximum intake air temperature

## All-speed engines

Table of maximum intake air temperature downstream of the charge air cooler in °C for all-speed engines with keel cooling at full engine power.

Ambient conditions: 25°C, 1,013 mbar.

**Note:**

Check the temperature of the engine intake air when the installation is complete.

| Engine type | Engine power | Maximum intake air temperature (°C), engine speed (rpm) | | | | |
|---|---|---|---|---|---|---|
| | | 1,200 | 1,500 | 1,800 | 2,100 | 2,300 |
| DI09 070M | 162 kW/220 hp | 39 | 39 | 39 | - | - |
| DI09 070M | 184 kW/250 hp | 39 | 39 | 40 | - | - |
| DI09 070M | 221 kW/300 hp | 40 | 41 | 41 | - | - |
| DI09 070M | 257 kW/350 hp | 40 | 42 | 42 | - | - |
| DI09 072M | 221 kW/300 hp | 40 | 42 | 43 | 42 | - |
| DI09 072M | 257 kW/350 hp | 41 | 44 | 44 | 44 | - |
| DI09 072M | 294 kW/400 hp | 41 | 44 | 45 | 47 | - |
| DI13 071M | 294 kW/400 hp | 71 | 76 | 81 | - | - |
| DI13 071M | 331 kW/450 hp | 74 | 80 | 85 | - | - |
| DI13 071M | 368 kW/500 hp | 77 | 84 | 89 | - | - |
| DI13 073M | 331 kW/450 hp | 66 | 75 | 78 | 87 | - |
| DI13 073M | 368 kW/500 hp | 67 | 78 | 81 | 90 | - |
| DI13 073M | 405 kW/550 hp | 68 | 81 | 83 | 92 | - |
| DI13 080M | 162 kW/220 hp | 38 | 40 | 41 | - | - |



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| Engine type | Engine power | Maximum intake air temperature (°C), engine speed (rpm) | | | | |
|---|---|---|---|---|---|---|
| | | 1,200 | 1,500 | 1,800 | 2,100 | 2,300 |
| DI13 080M | 184 kW/250 hp | 39 | 40 | 42 | - | - |
| DI13 080M | 221 kW/300 hp | 39 | 42 | 42[1] | - | - |
| DI13 080M | 221 kW/300 hp | 39 | 42 | 43 | - | - |
| DI13 080M | 249 kW/338 hp | 40 | 42 | 44 | - | - |
| DI13 080M | 257 kW/350 hp | 40 | 43 | 44 | - | - |
| DI13 080M | 294 kW/400 hp | 41 | 44 | 46 | - | - |
| DI13 081M | 162 kW/220 hp | 39 | 40 | 42 | - | - |
| DI13 081M | 331 kW/450 hp | 43 | 46 | 48 | - | - |
| DI13 081M | 368 kW/500 hp | 45 | 48 | 49 | - | - |
| DI13 082M | 331 kW/450 hp | 41 | 45 | 46 | 49 | - |
| DI13 082M | 368 kW/500 hp | 42 | 46 | 48 | 51 | - |
| DI13 083M | 405 kW/550 hp | 41 | 45 | 48 | 52 | - |
| DI13 083M | 441 kW/600 hp | 41 | 45 | 50 | 54 | - |
| DI13 085M | 478 kW/650 hp | 39 | 45 | 50 | 54 | 57 |
| DI13 092M | 257 kW/345 hp | 42 | 43 | 44 | - | - |
| DI13 092M | 294 kW/395 hp | 43 | 44 | 45 | - | - |
| DI13 092M | 331 kW/445 hp | 43 | 45 | 47 | - | - |
| DI13 092M | 368 kW/495 hp | 45 | 47 | 49 | - | - |
| DI13 092M | 405 kW/545 hp | 45 | 49 | 50 | - | - |
| DI16 071M | 405 kW/550 hp | 71 | 76 | 79 | - | - |
| DI16 071M | 460 kW/625 hp | 71 | 78 | 82 | - | - |
| DI16 073M | 478 kW/650 hp | 44 | 54 | 59 | 68 | - |
| DI16 073M | 515 kW/700 hp | 45 | 56 | 61 | 71 | - |
| DI16 073M | 552 kW/750 hp | 46 | 57 | 63 | 74 | - |
| DI16 073M | 588 kW/800 hp | 46 | 58 | 65 | 76 | - |



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| Engine type | Engine power | Maximum intake air temperature (°C), engine speed (rpm) | | | | |
|---|---|---|---|---|---|---|
| | | 1,200 | 1,500 | 1,800 | 2,100 | 2,300 |
| DI16 079M | 405 kW/550 hp | 46 | 52 | 58 | - | - |
| DI16 079M | 460 kW/625 hp | 48 | 55 | 61 | - | - |
| DI16 079M | 515 kW/700 hp | 52 | 58 | 64 | - | - |
| DI16 079M | 552 kW/750 hp | 53 | 59 | 66 | - | - |
| DI16 080M | 221 kW/300 hp | 40 | 41 | 43 | - | - |
| DI16 080M | 257 kW/350 hp | 41 | 42 | 44 | - | - |
| DI16 080M | 294 kW/400 hp | 41 | 42 | 45 | - | - |
| DI16 080M | 331 kW/450 hp | 42 | 43 | 46 | - | - |
| DI16 080M | 405 kW/550 hp | 43 | 45 | 48 | - | - |
| DI16 080M | 460 kW/625 hp | 44 | 47 | 49 | - | - |
| DI16 080M | 515 kW/700 hp | 44 | 48 | 51 | - | - |
| DI16 081M | 478 kW/650 hp | 42 | 44 | 48 | 53 | - |
| DI16 081M | 515 kW/700 hp | 42 | 45 | 49 | 54 | - |
| DI16 082M | 588 kW/800 hp | 43 | 46 | 50 | 56 | - |

1. 1,600 rpm.



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## Single-speed engines

Table of maximum intake air temperature downstream of charge air cooler in °C. The table applies to single-speed engines with keel cooling at full power according to power level MAP (Marine Auxiliary Power).

Ambient conditions: 25°C, 1,013 mbar.

**Note:**

Check the temperature of the engine intake air when the installation is complete.

| Engine type | Engine power | Maximum intake air temperature (°C), engine speed (rpm) | |
|---|---|---|---|
| | | 1,500 | 1,800 |
| DI09 074M | 199/199 kW | 40 | 40 |
| DI09 074M | 217/217 kW | 41 | 41 |
| DI09 074M | 269/269 kW | 42 | 43 |
| DI09 074M | 269/323 kW | 42 | 45 |
| DI13 075M | 285/285 kW | 76 | 77 |
| DI13 075M | 323/323 kW | 80 | 81 |
| DI13 075M | 323/376 kW | 80 | 87 |
| DI13 075M | 376/426 kW | 85 | 90 |
| DI13 075M | 426/426 kW | 88 | 90 |
| DI13 084M | 269 kW | - | 48 |
| DI13 084M | 323 kW | - | 50 |
| DI13 084M | 376 kW | - | 53 |
| DI13 084M | 426 kW | - | 55 |
| DI13 091M | 269/285 kW | 44 | 45 |
| DI13 091M | 285/323 kW | 44 | 46 |



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