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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Engine type	Engine power	Maximum intake air temperature (°C), engine speed (rpm)	
		1,500	1,800
DI13 091M	323/374 kW	45	48
DI13 091M	374/426 kW	47	50
DI13 091M	426/426 kW	49	50
DI16 075M	430/468 kW	54	60
DI16 075M	450/511 kW	55	62
DI16 075M	480/553 kW	56	64
DI16 075M	511/596 kW	58	67
DI16 084M	468 kW	-	50
DI16 085M	522 kW	-	52
DI16 085M	553 kW	-	53
DI16 090M	430/468 kW	47	50
DI16 090M	450/511 kW	47	51
DI16 090M	480/553 kW	48	53
DI16 090M	511/596 kW	49	55
DI16 090M	535/640 kW	50	56
DI16 091M	430/468 kW	46	48
DI16 091M	450/511 kW	47	49
DI16 091M	480/553 kW	47	50
DI16 091M	480/596 kW	47	52

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