

Volvo Chassis - Air Conditioning (A/C) Performance Chart - Trucks Built After January 2019



This table lists the normal high and low pressure readings and vent (duct) temperature for the given conditions of engine rpm, relative humidity, and ambient temperature.

Test conditions:

- Engine running at 1500 RPM
- Engine fan locked on
- Main bunk fan on high
- Fresh air mode
- Hood and door open
- System property changed

Allow the system to stabilize for 10 min before taking readings

Relative Humidity %	Ambient Temperature °F (°C)	Discharge Pressure psig (kPag)	Suction Pressure psig (kPag)	Temperature - Passenger Seat Left Vent °F (°C)	Temperature - Lower Bunk Vent °F (°C)
20	70 (21)	95-130 (655-896)	10-20 (69-138)	42-52 (5.5-11)	40-50 (4.4-10)
	80 (27)	120-155 (827-1069)	10-25 (69-172)	45-55 (7.2-13)	43-53 (6-12)
	90 (32)	150-190 (1034-1310)	10-25 (69-172)	47-57 (8.5-14)	45-55 (7.2-13)
	100 (38)	180-220 (1241-1517)	15-30 (103-207)	52-62 (11-17)	55-65 (13-18)
	110 (43)	210-255 (1448-1758)	20-35 (138-241)	57-67 (14-19)	58-68 (14-20)
50	70 (21)	95-130 (655-896)	10-20 (69-138)	42-52 (5.5-11)	40-50 (4.4-10)
	80 (27)	120-155 (827-1069)	10-25 (69-172)	45-55 (7.2-13)	45-55 (7.2-13)

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Relative Humidity %	Ambient Temperature °F (°C)	Discharge Pressure psig (kPag)	Suction Pressure psig (kPag)	Temperature - Passenger Seat Left Vent °F (°C)	Temperature - Lower Bunk Vent °F (°C)
90 (32)	90 (32)	155-195 (1069-1344)	15-30 (103-207)	47-62 (8.5-17)	48-58 (8.9-14)
	100 (38)	190-230 (1310-1586)	20-35 (138-241)	62-77 (17-25)	62-72 (17-22)
80	70 (21)	100-135 (690-931)	10-25 (69-172)	43-53 (6-12)	40-50 (4.4-10)
	80 (27)	130-165 (896-1138)	15-30 (103-207)	50-60 (10-16)	49-59 (9.4-15)
	90 (32)	165-205 (1138-1413)	20-35 (138-241)	57-72 (14-22)	59-69 (15-21)

Note: Values stated are for sleeper cab models. Day cab models will have slightly lower temperatures and pressure values



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