

DE-ICING HOLDOVER TIMES

Weather type	OAT		Type I	Type II			Type IV		
	°C	°F		50 / 50	75 / 25	100 / 0	50 / 50	75 / 25	100 / 0
Frost	above 0	above 32	0:45	4:00	6:00	12:00	4:00	6:00	18:00
	0 to -3	32 to 26		3:00	5:00	8:00	3:00	5:00	12:00
	-4 to -14	25 to 6		-	5:00	8:00	-	5:00	12:00
	-15 to -25	5 to -13		-	-	8:00	-	-	12:00
Freezing Fog	-3 and above	26 and above	0:05 - 0:15	0:15 - 0:20	0:25 - 1:00	0:35 - 1:30	0:15 - 0:35	1:05 - 1:45	1:05 - 2:15
	-4 to -14	25 to 6		-	0:20 - 0:55	0:20 - 1:05	-	0:25 - 0:50	0:20 - 1:20
	-15 to -25	5 to -13		-	-	0:15 - 0:20	-	-	0:15 - 0:40
Snow - Snow Grains	above 0	above 32	0:05 - 0:15	0:05 - 0:15	0:15 - 0:40	0:20 - 0:55	0:05 - 0:20	0:30 - 1:05	0:35 - 1:05
	0 to -3	32 to 26		0:05 - 0:15	0:15 - 0:30	0:20 - 0:45	0:05 - 0:15	0:25 - 0:50	0:30 - 0:55
	-4 to -14	25 to 6		-	0:15 - 0:30	0:15 - 0:35	-	0:15 - 0:25	0:20 - 0:40
	-15 to -25	5 to -13		-	-	0:15 - 0:30	-	-	0:15 - 0:30
Freezing Drizzle	-3 and above	26 and above	0:05 - 0:08	0:05 - 0:15	0:20 - 0:45	0:30 - 0:55	0:10 - 0:20	0:15 - 0:30	0:20 - 0:45
	-4 to -10	25 to 14		-	0:20 - 0:45	0:15 - 0:45	-	0:15 - 0:30	0:15 - 0:30
	-11 to -14	13 to -13		-	0:20 - 0:45	-	-	0:15 - 0:30	-
Light Freezing Rain	-3 and above	26 and above	0:02 - 0:05	0:05 - 0:10	0:10 - 0:25	0:15 - 0:25	0:10 - 0:20	0:15 - 0:30	0:25 - 0:45
	-4 to -10	25 to 14		-	0:10 - 0:25	0:10 - 0:25	-	0:15 - 0:30	0:10 - 0:25
	-11 to -14	13 to -13		-	0:10 - 0:25	-	-	-	-
Rain on cold soaked wings	above 0	above 32	0:02 - 0:05	-	0:05 - 0:25	0:05 - 0:40	-	0:05 - 0:35	0:10 - 0:50

 JAR OPS-A 8.2.4.4 Holdover times for ground de-icing



The start of the holdover time is from the beginning of the de-icing treatment.

The upper holdover time limit represents light precipitation conditions while the lower holdover time limit represents moderate precipitation conditions.

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