

NØRDIS ULTIMA R290 40kW heating performance data (defrost included)

HLT40MONO-3 / SCOP (35°C) - 4.87						
Ambient temperature, °C	Water Outlet Temperature, °C	Compressor Speed, Hz	Heating Capacity, W	Input Power (with water pump), W	COP (with water pump)	Note
DB43/WB26	65	38	22.18	4.89	4.54	No Ice
		30	19.30	4.00	4.83	
	60	38	22.75	4.59	4.96	
		30	19.72	3.70	5.33	
	55	38	24.57	4.35	5.65	
		30	20.50	3.48	5.89	
	50	38	25.74	4.16	6.18	
		30	20.90	3.14	6.66	
	45	38	26.10	3.63	7.20	
		30	21.50	2.93	7.34	
	70	38	19.81	5.35	3.70	
		30	16.35	4.13	3.96	
DB35/WB24	65	38	20.83	4.89	4.26	
		30	17.91	4.00	4.48	
	60	38	21.44	4.73	4.53	
		30	18.39	3.86	4.77	
	55	38	23.15	4.70	4.93	
		30	19.19	3.77	5.09	
	50	38	24.35	4.56	5.35	
		30	19.60	3.39	5.78	
	45	38	24.78	3.91	6.34	
		30	20.18	2.98	6.77	
	40	38	25.09	3.41	7.37	
		30	20.35	2.59	7.85	
	35	38	25.60	2.84	9.00	
		30	20.60	2.17	9.51	
DB30/WB22	70	38	18.79	5.80	3.24	
		30	15.23	4.98	3.06	
	65	38	19.80	5.37	3.69	
		30	16.81	4.38	3.84	
	60	38	20.47	5.08	4.03	
		30	17.40	4.24	4.10	
	55	38	23.04	5.45	4.23	
		30	18.19	4.00	4.54	
	50	38	23.40	4.82	4.85	
		30	18.58	3.57	5.20	
	45	38	23.76	4.21	5.65	
		30	19.05	3.06	6.23	
	40	38	24.12	3.67	6.57	
		30	19.33	2.66	7.27	
	35	38	24.49	3.00	8.16	
		30	19.51	2.21	8.83	
DB25/WB20	75	38	24.85	2.86	8.68	
		30	19.79	2.14	9.23	
		42	16.70	7.00	2.39	
	70	38	14.30	6.40	2.23	
		30	9.50	5.20	1.83	
		42	18.58	6.90	2.69	
	65	38	16.47	6.16	2.67	
		30	12.25	4.69	2.61	
		42	19.48	5.81	3.35	
		38	17.60	5.24	3.36	
		30	13.83	4.09	3.38	

Ambient temperature, °C	Water Outlet Temperature, °C	Compressor Speed, Hz	Heating Capacity, W	Input Power (with water pump), W	COP (with water pump)	Note
DB25/WB20	60	42	20.38	5.92	3.45	
		38	18.73	5.36	3.49	
		30	15.41	4.24	3.63	
	55	42	21.29	6.02	3.53	
		38	19.85	5.48	3.62	
		30	16.99	4.38	3.88	
	50	42	22.19	5.18	4.28	
		38	20.45	4.73	4.33	
		30	16.96	3.82	4.44	
	45	42	23.09	4.28	5.40	
		38	21.04	3.93	5.36	
		30	16.93	3.23	5.23	
	40	42	23.28	3.83	6.07	
		38	21.21	3.47	6.11	
		30	17.07	2.75	6.21	
	35	42	23.46	3.38	6.95	
		38	21.38	3.00	7.12	
		30	17.21	2.24	7.67	
	30	42	23.64	3.18	7.43	
		38	21.54	2.82	7.63	
		30	17.35	2.11	8.23	
	25	42	23.82	3.00	7.93	
		38	21.71	2.64	8.21	
		30	17.50	1.93	9.08	
DB20/WB11	75	58	16.40	9.80	1.67	No Ice
		42	11.40	7.20	1.58	
		30	7.90	5.20	1.52	
	70	58	24.82	8.95	2.77	
		42	14.86	6.45	2.30	
		30	10.27	4.73	2.17	
	65	58	26.25	8.87	2.96	
		42	16.92	6.44	2.63	
		30	11.85	4.72	2.51	
	60	58	27.67	8.78	3.15	
		42	18.98	6.43	2.95	
		30	13.42	4.71	2.85	
	55	58	29.10	8.70	3.34	
		42	21.04	6.41	3.28	
		30	15.00	4.70	3.19	
	50	58	29.40	7.75	3.79	
		42	21.40	5.72	3.74	
		30	15.40	4.20	3.67	
	45	58	29.70	6.80	4.37	
		42	21.76	5.03	4.33	
		30	15.80	3.70	4.27	
	40	58	30.15	6.15	4.90	
		42	22.12	4.41	5.02	
		30	16.10	3.10	5.19	
	35	58	30.60	5.50	5.56	
		42	22.49	3.79	5.94	
		30	16.40	2.50	6.56	
	30	58	31.05	4.85	6.40	
		42	22.85	3.46	6.60	
		30	16.70	2.30	7.26	
	25	58	31.50	4.60	6.85	
		42	23.21	3.20	7.25	
		30	17.84	2.10	8.50	

Ambient temperature, °C	Water Outlet Temperature, °C	Compressor Speed, Hz	Heating Capacity, W	Input Power (with water pump), W	COP (with water pump)	Note
DB12/WB11	75	58	15.2	10.0	1.52	No Ice
		42	9.5	6.6	1.44	
		30	6.4	5.4	1.19	
	70	58	11.30	7.60	1.49	
		42	8.90	6.00	1.50	
		30	7.10	4.80	1.50	
	65	65	23.43	13.00	1.80	
		52	13.81	7.24	1.91	
		42	11.15	5.82	1.92	
		30	8.67	4.59	1.89	
	60	65	25.10	10.75	2.33	
		52	16.32	6.88	2.37	
		42	13.40	5.63	2.38	
		30	10.25	4.38	2.34	
	55	82	36.39	11.60	3.14	
		65	30.10	9.80	3.10	
		52	18.83	6.51	2.89	
		42	15.64	5.45	2.87	
		30	11.82	4.18	2.83	
	50	82	36.65	10.95	3.35	
		65	30.05	9.05	3.32	
		52	21.57	6.71	3.22	
		42	17.63	5.49	3.21	
		30	12.91	4.04	3.20	
	45	82	36.90	10.30	3.57	
		65	30.00	8.30	3.60	
		52	24.30	6.90	3.56	
		42	19.62	5.54	3.54	
		30	14.00	3.90	3.55	
	40	82	38.38	9.65	3.98	
		65	30.85	7.75	3.98	
		52	25.04	6.03	4.15	
		42	20.27	4.78	4.24	
		30	14.55	3.28	4.44	
	35	82	39.85	9.00	4.43	
		65	31.70	7.20	4.40	
		52	25.78	5.15	5.00	
		42	20.93	4.02	5.21	
		30	15.10	2.66	5.68	
	30	82	41.33	8.35	4.95	
		65	32.55	6.65	4.89	
		52	26.52	4.66	5.70	
		42	21.58	3.54	6.10	
		30	15.66	2.39	6.55	
	25	82	42.80	7.71	5.55	
		65	33.40	6.10	5.48	
		52	27.27	4.02	6.79	
		42	22.24	3.19	6.97	
		30	16.21	2.20	7.37	
DB7/WB6	75	58	9.80	10.10	0.97	
		42	5.46	7.36	0.74	
		30	2.20	5.30	0.42	
	70	58	10.13	9.13	1.11	
		42	8.00	6.60	1.20	
		30	6.40	4.70	1.30	
	65	76	14.96	8.85	1.69	
		52	12.35	8.24	1.50	
		42	9.72	6.20	1.57	
		30	7.22	4.51	1.60	

Ambient temperature, °C	Water Outlet Temperature, °C	Compressor Speed, Hz	Heating Capacity, W	Input Power (with water pump), W	COP (with water pump)	Note
DB7/WB6	60	76	17.34	8.66	2.00	No Ice
		52	14.56	7.35	1.98	
		42	11.45	5.80	1.97	
		30	8.04	4.32	1.86	
	55	96	37.50	13.95	2.69	
		76	29.24	9.78	2.99	
		52	16.77	6.45	2.60	
		42	13.17	5.40	2.44	
		30	8.86	4.14	2.14	
	50	96	38.70	14.32	2.70	
		76	31.22	11.09	2.82	
		58	19.64	7.13	2.76	
		42	15.54	5.71	2.72	
		30	10.63	4.02	2.65	
	45	96	39.90	14.70	2.72	
		76	33.20	12.40	2.67	
		52	22.50	7.80	2.89	
		42	17.91	6.03	2.97	
		30	12.40	3.90	3.15	
	40	96	39.25	13.50	2.91	
		76	32.90	10.29	3.20	
		58	22.75	6.51	3.50	
		42	18.11	5.07	3.57	
		30	12.55	3.35	3.75	
	35	96	38.60	12.30	3.14	
		76	32.60	8.17	3.99	
		52	23.00	5.21	4.41	
		42	18.32	4.12	4.45	
		30	12.70	2.80	4.54	
	30	96	37.95	11.10	3.42	
		76	32.29	7.12	4.54	
		58	23.24	4.60	5.05	
		42	18.52	3.73	4.97	
		30	12.85	2.44	5.26	
	25	96	37.30	9.90	3.77	
		76	31.99	6.28	5.09	
		58	23.49	4.20	5.60	
		42	18.72	3.28	5.71	
		30	13.00	2.17	5.99	
DB2/WB1	75	58	7.17	10.21	0.70	Small Ice
		42	4.18	7.64	0.55	
		30	1.94	5.72	0.34	
	70	58	7.90	9.20	0.86	
		42	6.15	6.92	0.89	
		30	4.84	5.22	0.93	
	65	76	14.54	8.73	1.67	
		52	10.34	8.25	1.25	
		42	8.44	6.52	1.29	
		30	6.67	5.13	1.30	
	60	76	19.54	9.06	2.16	
		52	12.79	7.31	1.75	
		42	10.72	6.12	1.75	
		30	8.51	5.05	1.69	
	55	96	31.20	12.80	2.40	
		76	24.54	9.39	2.61	
		52	15.23	6.36	2.39	
		42	13.01	5.72	2.27	
		30	10.35	4.96	2.09	
	55	96	31.20	12.80	2.40	No Ice
		76	24.54	9.39	2.61	
		52	15.23	6.36	2.39	
		42	13.01	5.72	2.27	
		30	10.35	4.96	2.09	

Ambient temperature, °C	Water Outlet Temperature, °C	Compressor Speed, Hz	Heating Capacity, W	Input Power (with water pump), W	COP (with water pump)	Note
DB2/WB1	50	96	31.35	12.05	2.60	Small Ice
		76	25.37	9.72	2.61	
		58	17.67	7.38	2.39	No Ice
		42	14.42	6.18	2.34	
		30	10.52	4.73	2.23	
	45	96	31.50	11.30	2.80	Small Ice
		76	26.21	10.06	2.61	
		52	20.10	8.40	2.40	No Ice
		42	15.83	6.63	2.39	
		30	10.70	4.50	2.41	
	40	96	30.55	10.25	2.98	Small Ice
		76	25.55	8.65	2.95	
		58	19.83	6.94	2.86	No Ice
		42	15.74	5.50	2.86	
		30	10.85	3.78	2.87	
	35	96	29.60	9.20	3.20	Small Ice
		76	24.89	7.24	3.44	
		52	19.55	5.48	3.57	No Ice
		42	15.66	4.38	3.58	
		30	11.00	3.06	3.60	
	30	96	28.65	8.15	3.52	Small Ice
		76	24.23	5.83	4.15	
		58	19.28	4.02	4.80	No Ice
		42	15.58	3.25	4.79	
		30	11.14	2.33	4.77	
	25	96	27.70	7.10	3.90	Small Ice
		76	23.58	4.43	5.33	
		58	19.00	2.56	7.42	
		42	15.50	2.13	7.28	
		30	11.29	1.61	7.00	
DB-7/WB-8	70	58	5.20	9.00	0.58	No Ice
		42	4.33	6.71	0.65	
		30	3.68	5.00	0.74	
	65	76	8.56	9.88	0.87	
		52	5.94	6.94	0.86	
		42	6.67	6.58	1.01	
		30	4.96	4.75	1.04	
	60	76	14.19	9.79	1.45	
		52	10.23	7.48	1.37	
		42	9.00	6.44	1.40	
		30	6.24	4.50	1.39	
	55	96	21.32	12.37	1.72	
		76	19.82	9.69	2.05	
		52	14.51	8.01	1.81	
		42	11.33	6.30	1.80	
		30	7.52	4.25	1.77	
	50	96	23.71	11.63	2.04	
		76	20.76	9.60	2.16	
		58	14.91	7.55	1.97	
		42	11.68	5.93	1.97	
		30	7.81	3.98	1.96	
	45	96	26.10	10.90	2.39	
		76	21.70	9.50	2.28	
		52	15.30	7.10	2.14	
		42	12.03	5.55	2.17	
		30	8.10	3.70	2.17	

Ambient temperature, °C	Water Outlet Temperature, °C	Compressor Speed, Hz	Heating Capacity, W	Input Power (with water pump), W	COP (with water pump)	Note
DB-7/WB-8	40	96	25.65	9.95	2.58	Small Ice
		76	22.06	9.00	2.45	No Ice
		58	15.59	6.77	2.30	
		42	12.25	5.24	2.34	
		30	8.25	3.41	2.42	
	35	96	25.20	9.00	2.80	Small Ice
		76	22.42	8.50	2.64	No Ice
		52	15.88	6.45	2.46	
		42	12.48	4.93	2.53	
		30	8.40	3.12	2.69	
	30	96	25.95	8.42	3.08	
		76	22.78	8.00	2.85	
		58	16.17	6.12	2.64	
		42	12.71	4.62	2.75	
		30	8.55	2.83	3.03	
	25	96	26.70	7.75	3.44	
		76	23.13	7.51	3.08	
		58	16.47	5.79	2.84	
		42	12.94	4.31	3.00	
		30	8.70	2.54	3.43	
DB-15/WB-16	60	76	10.24	10.11	1.01	No Ice
		52	9.95	6.54	1.52	
		42	7.11	5.43	1.31	
		30	3.72	4.11	0.90	
	55	96	17.23	12.27	1.41	
		76	11.86	9.44	1.26	
		52	10.63	6.59	1.61	
		42	7.64	5.31	1.44	
		30	4.04	3.77	1.07	
	50	96	16.92	11.33	1.49	
		76	13.48	8.77	1.54	
		58	11.32	6.65	1.70	
		42	8.16	5.19	1.57	
		30	4.37	3.44	1.27	
	45	96	16.60	10.40	1.60	
		76	15.10	8.10	1.88	
		52	12.00	6.70	1.78	
		42	8.68	5.06	1.71	
		30	4.70	3.10	1.52	
	40	96	19.01	9.75	1.95	
		76	16.37	7.92	2.07	
		58	12.07	6.12	1.97	
		42	9.14	4.72	1.93	
		30	5.61	3.05	1.84	
	35	96	21.42	9.10	2.35	
		76	17.65	7.74	2.28	
		52	12.15	5.54	2.19	
		42	9.59	4.38	2.19	
		30	6.52	3.00	2.17	
	30	96	23.83	9.09	2.62	
		76	18.92	7.55	2.51	
		58	12.22	4.96	2.47	
		42	10.04	4.05	2.48	
		30	7.43	2.95	2.52	
	25	96	26.24	7.80	3.36	
		76	20.20	7.37	2.74	
		58	12.30	4.38	2.81	
		42	10.50	3.71	2.83	
		30	8.33	2.90	2.87	

Ambient temperature, °C	Water Outlet Temperature, °C	Compressor Speed, Hz	Heating Capacity, W	Input Power (with water pump), W	COP (with water pump)	Note
DB-20/WB-21	55	96	13.67	12.28	1.11	No Ice
		76	9.22	9.48	0.97	
		58	7.02	6.80	1.03	
		42	5.05	5.19	0.97	
		30	2.86	3.62	0.79	
	50	96	13.71	11.37	1.21	
		76	10.49	8.80	1.19	
		58	8.06	6.57	1.23	
		42	5.82	4.95	1.18	
		30	3.37	3.32	1.01	
	45	96	13.75	10.45	1.32	
		76	11.76	8.12	1.45	
		58	9.10	6.35	1.43	
		42	6.59	4.70	1.40	
		30	3.88	3.03	1.28	
	40	96	15.88	9.70	1.64	
		76	13.23	7.78	1.70	
		58	9.89	5.98	1.65	
		42	7.36	4.48	1.64	
		30	4.71	2.97	1.58	
	35	96	18.01	8.95	2.01	
		76	14.70	7.45	1.97	
		58	10.67	5.62	1.90	
		42	8.13	4.26	1.91	
		30	5.53	2.91	1.90	
	30	96	20.14	8.53	2.36	
		76	16.17	7.12	2.27	
		58	11.46	5.25	2.18	
		42	8.90	4.03	2.21	
		30	6.36	2.85	2.23	
	25	96	22.27	8.28	2.69	
		76	17.64	6.79	2.60	
		58	12.25	4.89	2.51	
		42	9.66	3.81	2.54	
		30	7.18	2.79	2.58	
DB-25/WB-26	55	96	10.10	12.30	0.82	No Ice
		76	6.57	9.51	0.69	
		58	3.40	7.00	0.49	
		42	2.46	5.07	0.49	
		30	1.68	3.46	0.49	
	50	96	10.50	11.40	0.90	
		76	7.50	8.82	0.85	
		58	4.80	6.50	0.70	
		42	3.48	4.71	0.74	
		30	2.37	3.21	0.74	
	45	96	10.90	10.50	1.00	
		76	8.43	8.13	1.04	
		58	6.20	6.00	1.00	
		42	4.49	4.34	1.03	
		30	3.06	2.97	1.03	
	40	96	12.75	9.65	1.32	
		76	10.09	7.65	1.32	
		58	7.70	5.85	1.32	
		42	5.58	4.24	1.32	
		30	3.81	2.89	1.32	
	35	96	14.60	8.80	1.60	
		76	11.76	7.17	1.64	
		58	9.20	5.70	1.60	
		42	6.66	4.13	1.61	
		30	4.55	2.82	1.61	

Ambient temperature, °C	Water Outlet Temperature, °C	Compressor Speed, Hz	Heating Capacity, W	Input Power (with water pump), W	COP (with water pump)	Note
DB-25/WB-26	30	96	16.45	7.95	2.07	No Ice
		76	13.42	6.69	2.01	
		58	10.70	5.55	1.93	
		42	7.75	4.02	1.93	
		30	5.29	2.74	1.93	
	25	96	18.30	7.38	2.48	
		76	15.09	6.21	2.43	
		58	12.20	5.40	2.26	
		42	8.83	3.91	2.26	
		30	6.03	2.67	2.26	

NØRDIS ULTIMA R290 40kW cooling performance data

HLT40MONO-3						
Ambient temperature, °C	Water Outlet Temperature, °C	Compressor Speed, Hz	Cooling Capacity, W	Input Power (with water pump), W	EER (with water pump)	Note
DB15/WB12	7	42	17.90	2.90	6.20	
		36	15.50	2.40	6.30	
		30	12.10	2.10	5.90	
	18	42	24.60	2.80	8.80	
		36	21.70	2.30	9.40	
		30	18.30	1.90	9.80	
DB25/WB20	7	74	24.70	7.00	3.50	
		56	19.90	4.90	4.10	
		30	9.20	2.50	3.60	
	18	86	38.50	8.40	4.60	
		56	29.90	4.50	6.70	
		30	15.90	2.40	6.70	
DB35/WB24	7	86	25.10	9.40	2.59	
		68	22.78	7.88	2.89	
		48	14.53	4.79	3.03	
		30	4.50	2.90	1.50	
	18	86	34.20	9.10	3.65	
		68	31.57	7.80	4.05	
		48	23.02	4.81	4.78	
		30	11.96	2.80	4.27	
DB40/WB26	7	74	20.20	8.40	2.40	
		56	15.00	6.00	2.50	
		30	8.50	3.20	2.70	
	18	86	33.20	10.60	3.10	
		56	24.00	6.10	3.90	
		30	11.70	3.00	4.00	