

Port-A-Cool® unit

TEMPERATURE OUTPUT CHARACTERISTICS 10% TO 25% RELATIVE HUMIDITY

10% RH

DRY BULB		TEMP. °F		OUTPUT TEMP.	
Temp. °C	Temp. °F	Difference	Drop	°C	°F
32.2	90	65	46.8	6.1	43
35.0	95	65	46.8	8.9	48
37.8	100	66	47.5	11.1	52
40.6	105	67	48.2	13.9	57
43.3	110	68	49.0	16.1	61
46.1	115	67	48.2	19.4	67

15% RH

DRY BULB		TEMP. °F		OUTPUT TEMP.	
Temp. °C	Temp. °F	Difference	Drop	°C	°F
32.2	90	55	39.6	10.0	50
35.0	95	56	40.3	12.8	55
37.8	100	57	41.0	15.0	59
40.6	105	57	41.0	17.8	64
43.3	110	58	41.8	20.0	68
46.1	115	59	42.5	22.8	73

20% RH

DRY BULB		TEMP. °F		OUTPUT TEMP.	
Temp. °C	Temp. °F	Difference	Drop	°C	°F
32.2	90	47	33.8	13.3	56
35.0	95	47	33.8	16.1	61
37.8	100	48	34.6	18.3	65
40.6	105	49	35.3	21.1	70
43.3	110	49	35.3	23.9	75
46.1	115	51	36.7	25.6	78

25% RH

DRY BULB		TEMP. °F		OUTPUT TEMP.	
Temp. °C	Temp. °F	Difference	Drop	°C	°F
32.2	90	41	29.5	15.6	60
35.0	95	43	31.0	17.8	64
37.8	100	44	31.7	20.0	68
40.6	105	44	31.7	22.8	73
43.3	110	44	31.7	25.6	78
46.1	115	45	32.4	28.3	83

WET BULB TEMPERATURE Wet Bulb Temperature @ Current Humidity Level
 DRY BULB TEMPERATURE Current Ambient Air Temperature
 TEMPERATURE DIFFERENCE Dry Bulb Temp Minus Wet Bulb Temp
 TEMPERATURE DROP Temperature Difference Multiplied by 72%
 OUTPUT TEMPERATURE Dry Bulb Temperature Minus Temperature Drop

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Port-A-Cool® unit

TEMPERATURE OUTPUT CHARACTERISTICS 30% TO 45% RELATIVE HUMIDITY

30% RH					
DRY BULB		TEMP. °F		OUTPUT TEMP.	
Temp. °C	Temp. °F	Difference	Drop	°C	°F
26.7	80	34	24.5	13.3	56
29.4	85	35	25.2	15.6	60
32.2	90	35	25.2	18.3	65
35.0	95	36	25.9	20.6	69
37.8	100	37	26.6	22.8	73
40.6	105	38	27.4	25.6	78

35% RH					
DRY BULB		TEMP. °F		OUTPUT TEMP.	
Temp. °C	Temp. °F	Difference	Drop	°C	°F
23.9	75	30	21.6	11.7	53
26.7	80	31	22.3	14.4	58
29.4	85	30	21.6	17.2	63
32.2	90	32	23.0	19.4	67
35.0	95	32	23.0	22.2	72
37.8	100	33	23.8	24.4	76

40% RH					
DRY BULB		TEMP. °F		OUTPUT TEMP.	
Temp. °C	Temp. °F	Difference	Drop	°C	°F
29.4	85	27	19.4	18.9	66
32.2	90	28	20.2	21.1	70
35.0	95	29	20.9	23.3	74
37.8	100	27	19.4	27.2	81
40.6	105	29	20.9	28.9	84
43.3	110	28	20.2	32.2	90

45% RH					
DRY BULB		TEMP. °F		OUTPUT TEMP.	
Temp. °C	Temp. °F	Difference	Drop	°C	°F
29.4	85	24	17.3	20.0	68
32.2	90	25	18.0	22.2	72
35.0	95	25	18.0	25.0	77
37.8	100	25	18.0	27.8	82
40.6	105	25	18.0	30.6	87
43.3	110	25	18.0	33.3	92

WET BULB TEMPERATURE Wet Bulb Temperature @ Current Humidity Level
 DRY BULB TEMPERATURE Current Ambient Air Temperature
 TEMPERATURE DIFFERENCE Dry Bulb Temp Minus Wet Bulb Temp
 TEMPERATURE DROP Temperature Difference Multiplied by 72%
 OUTPUT TEMPERATURE Dry Bulb Temperature Minus Temperature Drop

Port-A-Cool® unit**TEMPERATURE OUTPUT CHARACTERISTICS
50% TO 65% RELATIVE HUMIDITY****50% RH**

DRY BULB		TEMP. °F		OUTPUT TEMP.	
Temp. °C	Temp. °F	Difference	Drop	°C	°F
23.9	75	22	15.8	15.0	59
26.7	80	20	14.4	18.9	66
29.4	85	22	15.8	20.6	69
32.2	90	21	15.1	23.9	75
35.0	95	22	15.8	26.1	79
37.8	100	22	15.8	28.9	84

55% RH

DRY BULB		TEMP. °F		OUTPUT TEMP.	
Temp. °C	Temp. °F	Difference	Drop	°C	°F
23.9	75	17	12.2	17.2	63
26.7	80	19	13.7	18.9	66
29.4	85	18	13.0	22.2	72
32.2	90	19	13.7	24.4	76
35.0	95	19	13.7	27.2	81
37.8	100	19	13.7	30.0	86

60% RH

DRY BULB		TEMP. °F		OUTPUT TEMP.	
Temp. °C	Temp. °F	Difference	Drop	°C	°F
23.9	75	15	10.8	17.8	64
26.7	80	15	10.8	20.6	69
29.4	85	15	10.8	23.3	74
32.2	90	15	10.8	26.1	79
35.0	95	17	12.2	28.3	83
37.8	100	16	11.5	31.1	88

65% RH

DRY BULB		TEMP. °F		OUTPUT TEMP.	
Temp. °C	Temp. °F	Difference	Drop	°C	°F
23.9	75	13	9.4	18.9	66
26.7	80	13	9.4	21.7	71
29.4	85	13	9.4	24.4	76
32.2	90	13	9.4	27.2	81
35.0	95	14	10.1	29.4	85
37.8	100	13	9.4	32.8	91

WET BULB TEMPERATURE Wet Bulb Temperature @ Current Humidity Level
 DRY BULB TEMPERATURE Current Ambient Air Temperature
 TEMPERATURE DIFFERENCE Dry Bulb Temp Minus Wet Bulb Temp
 TEMPERATURE DROP Temperature Difference Multiplied by 72%
 OUTPUT TEMPERATURE Dry Bulb Temperature Minus Temperature Drop

Port-A-Cool® unit

TEMPERATURE OUTPUT CHARACTERISTICS 70% TO 75% RELATIVE HUMIDITY

70% RH					
DRY BULB		TEMP. °F		OUTPUT TEMP.	
Temp. °C	Temp. °F	Difference	Drop	°C	°F
21.1	70	10	7.2	17.2	63
23.9	75	10	7.2	20.0	68
26.7	80	11	7.9	22.2	72
29.4	85	11	7.9	25.0	77
32.2	90	12	8.6	27.2	81
35.0	95	12	8.6	30.0	86

75% RH					
DRY BULB		TEMP. °F		OUTPUT TEMP.	
Temp. °C	Temp. °F	Difference	Drop	°C	°F
18.3	65	8	5.8	15.0	59
21.1	70	8	5.8	17.8	64
23.9	75	9	6.5	20.6	69
26.7	80	9	6.5	23.3	74
29.4	85	9	6.5	26.1	79
32.2	90	9	6.5	28.9	84

WET BULB TEMPERATURE Wet Bulb Temperature @ Current Humidity Level
 DRY BULB TEMPERATURE Current Ambient Air Temperature
 TEMPERATURE DIFFERENCE Dry Bulb Temp Minus Wet Bulb Temp
 TEMPERATURE DROP Temperature Difference Multiplied by 72%
 OUTPUT TEMPERATURE Dry Bulb Temperature Minus Temperature Drop