HSER 225

PERFORMANCE DATA

COOLING CAPACITY

Total capacity kW and Sensible capacity kW. T = Total S = Sensible
NOTE: Capacities are GROSS and do not include allowance for fan motor heat loss. For fan motor heat loss refer to Air Handling Performance.
LINE LOSSES: - Capacities are for close coupled systems - for split systems refrigerated line pressure drops will reduce capacity.

Indoor coil E.A.T. / Outdoor coil E.A.T. D.B. °C: **24**

AIR l/s	D.B. °C	W.B. °C 15 T	15 S	17 T	17 S	19 T	19 S	22 T	22 S
265	20	5.4	3.6	5.8	3.1	6.3	2.5	-	-
265	22	5.4	4.2	5.8	3.6	6.3	3.1	7.0	2.2
265	24	5.4	4.8	5.8	4.2	6.3	3.7	7.0	2.8
265	26	5.4	5.3	5.8	4.8	6.3	4.2	7.0	3.4
265	28	5.9	5.9	5.8	5.3	6.3	4.8	7.0	3.9
300	20	5.6	3.9	6.0	3.2	6.5	2.6	-	-
300	22	5.6	4.5	6.0	3.9	6.5	3.2	7.3	2.3
300	24	5.6	5.1	6.0	4.5	6.5	3.9	7.3	2.9
300	26	5.9	5.9	6.0	5.1	6.5	4.5	7.3	3.5
300	28	6.1	6.1	6.0	5.8	6.5	5.1	7.3	4.2
330	20	5.7	4.0	6.2	3.4	6.7	2.7	-	-
330	22	5.7	4.7	6.2	4.0	6.7	3.4	7.4	2.3
330	24	5.7	5.4	6.2	4.7	6.7	4.0	7.4	3.0
330	26	6.0	6.0	6.2	5.4	6.7	4.7	7.4	3.7
330	28	6.3	6.3	6.2	6.1	6.7	5.4	7.4	4.4
375	20	5.9	4.3	6.4	3.5	6.9	2.8	-	-
375	22	5.9	5.0	6.4	4.3	6.9	3.5	7.7	2.3
375	24	5.9	5.8	6.4	5.0	6.9	4.3	7.7	3.1
375	26	6.3	6.3	6.4	5.8	6.9	5.0	7.7	3.9
375	28	6.5	6.5	6.5	6.5	6.9	5.8	7.7	4.6

Outdoor coil E.A.T. D.B. °C: **27**

AIR l/s	D.B. °C	W.B. °C 15 T	15 S	17 T	17 S	19 T	19 S	22 T	22 S
265	20	5.3	3.6	5.7	3.0	6.2	2.5	-	-
265	22	5.3	4.2	5.7	3.6	6.2	3.0	6.9	2.2
265	24	5.3	4.7	5.7	4.2	6.2	3.6	6.9	2.7
265	26	5.3	5.3	5.7	4.7	6.2	4.2	6.9	3.3
265	28	5.8	5.8	5.7	5.3	6.2	4.7	6.9	3.9
300	20	5.5	3.8	5.9	3.2	6.4	2.6	-	-
300	22	5.5	4.4	5.9	3.8	6.4	3.2	7.1	2.2
300	24	5.5	5.1	5.9	4.4	6.4	3.8	7.1	2.8
300	26	5.8	5.8	5.9	5.1	6.4	4.4	7.1	3.5
300	28	6.0	6.0	5.9	5.7	6.4	5.1	7.1	4.1
330	20	5.6	4.0	6.1	3.3	6.5	2.6	-	-
330	22	5.6	4.7	6.1	4.0	6.5	3.3	7.3	2.2
330	24	5.6	5.4	6.1	4.7	6.5	4.0	7.3	2.9
330	26	5.9	5.9	6.1	5.4	6.5	4.7	7.3	3.6
330	28	6.2	6.2	6.1	6.0	6.5	5.4	7.3	4.3
375	20	5.8	4.2	6.2	3.5	6.7	2.7	-	-
375	22	5.8	5.0	6.2	4.2	6.7	3.5	7.5	2.3
375	24	5.8	5.7	6.2	5.0	6.7	4.2	7.5	3.0
375	26	6.2	6.2	6.2	5.7	6.7	5.0	7.5	3.8
375	28	6.4	6.4	6.4	6.4	6.7	5.7	7.5	4.6

Outdoor coil E.A.T. D.B. °C: **30**

AIR l/s	D.B. °C	W.B. °C 15 T	15 S	17 T	17 S	19 T	19 S	22 T	22 S
265	20	5.2	3.5	5.6	3.0	6.1	2.4	-	-
265	22	5.2	4.1	5.6	3.6	6.1	3.0	6.8	2.1
265	24	5.2	4.7	5.6	4.1	6.1	3.6	6.8	2.7
265	26	5.4	5.4	5.6	4.7	6.1	4.1	6.8	3.3
265	28	5.7	5.7	5.6	5.2	6.1	4.7	6.8	3.8
300	20	5.4	3.8	5.8	3.1	6.2	2.5	-	-
300	22	5.4	4.4	5.8	3.8	6.2	3.1	7.0	2.2
300	24	5.4	5.0	5.8	4.4	6.2	3.8	7.0	2.8
300	26	5.7	5.7	5.8	5.0	6.2	4.4	7.0	3.4
300	28	5.9	5.9	5.8	5.7	6.2	5.0	7.0	4.1
330	20	5.5	3.9	5.9	3.3	6.4	2.6	-	-
330	22	5.5	4.6	5.9	3.9	6.4	3.2	7.1	2.2
330	24	5.5	5.3	5.9	4.6	6.4	3.9	7.1	2.9
330	26	5.8	5.8	5.9	5.3	6.4	4.6	7.1	3.6
330	28	6.1	6.1	6.1	6.1	6.4	5.3	7.1	4.3
375	20	5.7	4.2	6.1	3.4	6.6	2.6	-	-
375	22	5.7	4.9	6.1	4.2	6.6	3.4	7.3	2.2
375	24	5.8	5.8	6.1	4.9	6.6	4.2	7.3	3.0
375	26	6.1	6.1	6.1	5.7	6.6	4.9	7.3	3.7
375	28	6.3	6.3	6.3	6.3	6.6	5.7	7.3	4.5

Outdoor coil E.A.T. D.B. °C: **35**

AIR l/s	D.B. °C	W.B. °C 15 T	15 S	17 T	17 S	19 T	19 S	22 T	22 S
265	20	5.0	3.5	5.4	2.9	5.8	2.3	-	-
265	22	5.0	4.0	5.4	3.5	5.8	2.9	6.5	2.0
265	24	5.0	4.6	5.4	4.0	5.8	3.5	6.5	2.6
265	26	5.3	5.3	5.4	4.6	5.8	4.0	6.5	3.2
265	28	5.5	5.5	5.4	5.2	5.8	4.6	6.5	3.7
300	20	5.2	3.7	5.6	3.0	6.0	2.4	-	-
300	22	5.2	4.3	5.6	3.7	6.0	3.0	6.7	2.1
300	24	5.2	4.9	5.6	4.3	6.0	3.7	6.7	2.7
300	26	5.5	5.5	5.6	4.9	6.0	4.3	6.7	3.3
300	28	5.7	5.7	5.6	5.6	6.0	4.9	6.7	4.0
330	20	5.3	3.8	5.7	3.2	6.1	2.5	-	-
330	22	5.3	4.5	5.7	3.8	6.1	3.2	6.8	2.1
330	24	5.3	5.2	5.7	4.5	6.1	3.8	6.8	2.8
330	26	5.6	5.6	5.7	5.2	6.1	4.5	6.8	3.5
330	28	5.9	5.9	5.9	5.9	6.2	5.2	6.8	4.2
375	20	5.4	4.1	5.9	3.3	6.3	2.5	-	-
375	22	5.4	4.8	5.9	4.1	6.3	3.3	7.0	2.1
375	24	5.6	5.6	5.9	4.8	6.3	4.1	7.0	2.9
375	26	5.9	5.9	5.9	5.6	6.3	4.8	7.0	3.6
375	28	6.1	6.1	6.1	6.1	6.3	5.6	7.0	4.4

Outdoor coil E.A.T. D.B. °C: **40**

AIR l/s	D.B. °C	W.B. °C 15 T	15 S	17 T	17 S	19 T	19 S	22 T	22 S
265	20	4.8	3.4	5.2	2.8	5.6	2.2	-	-
265	22	4.8	3.9	5.2	3.4	5.6	2.8	6.2	1.9
265	24	4.8	4.5	5.2	3.9	5.6	3.4	6.2	2.5
265	26	5.1	5.1	5.2	4.5	5.6	3.9	6.2	3.1
265	28	5.3	5.3	5.2	5.1	5.6	4.5	6.2	3.6
300	20	5.0	3.6	5.4	3.0	5.8	2.3	-	-
300	22	5.0	4.2	5.4	3.6	5.8	2.9	6.4	2.0
300	24	5.0	4.8	5.4	4.2	5.8	3.6	6.4	2.8
300	26	5.3	5.3	5.4	4.8	5.8	4.2	6.4	3.2
300	28	5.5	5.5	5.5	5.5	5.8	4.8	6.4	3.9
330	20	5.1	3.8	5.5	3.1	5.9	2.4	-	-
330	22	5.1	4.4	5.5	3.7	5.9	3.1	6.6	2.0
330	24	5.2	5.2	5.5	4.4	5.9	3.7	6.6	2.7
330	26	5.5	5.5	5.5	5.1	5.9	4.4	6.6	3.4
330	28	5.7	5.7	5.7	5.7	5.9	5.1	6.6	4.1
375	20	5.2	4.0	5.6	3.2	6.0	2.4	-	-
375	22	5.2	4.7	5.6	4.0	6.0	3.2	6.7	2.0
375	24	5.4	5.4	5.6	4.7	6.0	4.0	6.7	2.8
375	26	5.6	5.6	5.6	5.5	6.0	4.7	6.7	3.5
375	28	5.9	5.9	5.9	5.9	6.0	5.5	6.7	4.3

HEATING CAPACITIES

G = Gross Heating Capacity kW
N = Net Heating Capacity kW allowing for average defrost.
LINE LOSSES: - Capacities are for close coupled systems.
Interconnecting pipework pressure drops will reduce capacity.

INDOOR COIL E.A.T. D.B. °C	OUTDOOR COIL E.A.T. D.B. °C -4 G	-4 N	-2 G	-2 N	0 G	0 N	2 G	2 N	4 G	4 N	6 G	6 N	8 G	8 N	10 G	10 N
15	4.9	3.8	5.2	4.0	5.6	4.0	5.9	4.0	6.3	3.9	6.7	4.5	7.1	6.6	7.4	7.4
20	4.8	3.7	5.1	3.9	5.4	3.9	5.8	3.9	6.1	3.8	6.6	4.4	7.0	6.5	7.2	7.2
25	4.6	3.6	4.9	3.8	5.3	3.8	5.6	3.7	5.9	3.7	6.3	4.2	6.7	6.3	7.0	7.0

VARIATIONS IN HEATING CAPACITY WITH INDOOR AIR FLOW						
HSER 225 based on 300 l/s	% Rated Air Flow	80 %	90 %	100 %	110 %	120 %
	Capacity Multiplier	0.986	0.993	1.0	1.006	1.01

AIR HANDLING PERFORMANCE