



Form Number: 201.21-NM3 (LS01)

206

Supersedes: None

LITERATURE SUPPLEMENT

File with: 201.21-NM3 (106)

Subject: Revised refrigerant circuit charge specs on Physical Data Tables for models:  
YCAV0287EA/VA & YCAV0507SA/PA

## PHYSICAL DATA (ENGLISH - Standard Efficiency)

Refrigerant R-134a	STANDARD EFFICIENCY								
	MODEL NUMBER (YCAV ___ S/P)								
	YCAV0287	YCAV0307	YCAV0357	YCAV0397	YCAV0417	YCAV0457	YCAV0477	YCAV0507	YCAV0527
<b>General Unit Data</b>									
Number of Independent Refrigerant Circuits	3	3	3	3	4	4	4	4	4
Refrigerant Charge, R-134a, Ckt.-1/Ckt.-2, lbs	185/170/170	185/185/170	185/185/230	230/230/230	185/185/ 185/185	230/185/ 185/185	230/230/ 185/185	230/230/ 185/230	230/230/ 230/230
Oil Charge, Ckt.-1/Ckt.-2, gal.	5/4/4	5/4/4	5/5/5	5/5/5	5/5/5/5	5/5/5/5	5/5/5/5	5/5/5/5	5/5/5/5
Glycol Charge (43% concentration), gal	5.4	5.5	6.0	6.3	9.2	9.3	9.4	9.8	9.9
<b>Comp.s, Semihermetic Screw</b>									
Quantity per Chiller	3	3	3	3	4	4	4	4	4
<b>Condensers, High Efficiency Fin/Tube with Integral Subcooler</b>									
Total Chiller Coil Face Area, ft <sup>2</sup>	381	411	469	528	587	616	645	645	704
Number of Rows	3	3	3	3	3	3	3	3	3
Fins per Inch	17	17	17	17	17	17	17	17	17
<b>Condenser Fans</b>									
Number, Ckt.-1/Ckt.-2	5/4/4	5/4/4	5/5/6	6/6/6	5/5/5/5	6/5/5/5	6/5/5/5	6/6/5/6	6/6/6/6
<b>Low Noise Fans</b>									
Fan Motor, HP/kW	2/1.8	2/1.8	2/1.8	2/1.8	2/1.8	2/1.8	2/1.8	2/1.8	2/1.8
Fan & Motor Speed, revs./min.	1140	1140	1140	1140	1140	1140	1140	1140	1140
Fan Diameter, inches	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
Fan Tip Speed, ft./min.	10575	10575	10575	10575	10575	10575	10575	10575	10575
Total Chiller Airflow, cfm	169000	182000	208000	234000	260000	273000	286000	286000	312000
<b>Ultra Quiet Fans</b>									
Fan Motor, HP/kW	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50
Fan & Motor Speed, revs./min.	838	838	838	838	838	838	838	838	838
Fan Diameter, inches	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4	35.4
Fan Tip Speed, ft./min.	7774	7774	7774	7774	7774	7774	7774	7774	7774
Total Chiller Airflow, cfm	169000	182000	208000	234000	260000	273000	286000	286000	312000
<b>Evaporator, Direct Expansion</b>									
Water Volume, gals.	202.0	236.0	236.0	236.0	266.0	266.0	318.0	318.0	318.0
Maximum Water Side Pressure, PSIG	150	150	150	150	150	150	150	150	150
Maximum Refrigerant Side Pressure, PSIG	235	235	235	235	235	235	235	235	235
Minimum Chilled Water Flow Rate, gpm	250	300	300	300	350	350	400	400	400
Maximum Chilled Water Flow Rate, gpm	1200	1200	1200	1200	1250	1250	1400	1400	1400
Water Connections, inches	10	10	10	10	10	10	10	10	10

Due to unit option configuration variances, contact your nearest YORK Sales office for unit weight.

## PHYSICAL DATA (ENGLISH - High Efficiency)

Refrigerant R-134a	HIGH EFFICIENCY						
	MODEL NUMBER (YCAV ___ E/V)						
	YCAV0267	YCAV0287	YCAV0327	YCAV0357	YCAV0397	YCAV0417	YCAV0477
<b>General Unit Data</b>							
Number of Independent Refrigerant Circuits	3	3	3	3	4	4	4
Refrigerant Charge, R-134a, Ckt.-1/Ckt.-2, lbs	185/185/170	185/185/185	185/185/230	230/230/230	185/185/ 185/185	230/230/ 185/185	230/230/ 230/230
Oil Charge, Ckt.-1/Ckt.-2, gal.	5/5/4	5/5/5	5/5/5	5/5/5	5/5/5/5	5/5/5/5	5/5/5/5
Glycol Charge (43% concentration), gal	5.5	5.7	6.0	6.3	9.2	9.4	9.6
<b>Comp.s, Semihermetic Screw</b>							
Quantity per Chiller	3	3	3	3	4	4	4
<b>Condensers, High Efficiency Fin/Tube with Integral Subcooler</b>							
Total Chiller Coil Face Area, ft <sup>2</sup>	411	469	469	528	569	645	704
Number of Rows	3	3	3	3	3	3	3
Fins per Inch	17	17	17	17	17	17	17
<b>Condenser Fans</b>							
Number, Ckt.-1/Ckt.-2	5/5/4	5/5/6	5/5/6	6/6/6	5/5/5/5	6/6/5/5	6/6/6/6
<b>Low Noise Fans</b>							
Fan Motor, HP/kW	2/1.8	2/1.8	2/1.8	2/1.8	2/1.8	2/1.8	2/1.8
Fan & Motor Speed, revs./min.	1140	1140	1140	1140	1140	1140	1140
Fan Diameter, inches	35.4	35.4	35.4	35.4	35.4	35.4	35.4
Fan Tip Speed, ft./min.	10575	10575	10575	10575	10575	10575	10575
Total Chiller Airflow, cfm	182000	208000	208000	234000	260000	286000	312000
<b>Ultra Quiet Fans</b>							
Fan Motor, HP/kW	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50
Fan & Motor Speed, revs./min.	838	838	838	838	838	838	838
Fan Diameter, inches	35.4	35.4	35.4	35.4	35.4	35.4	35.4
Fan Tip Speed, ft./min.	7774	7774	7774	7774	7774	7774	7774
Total Chiller Airflow, cfm	182000	208000	208000	234000	260000	286000	312000
<b>Evaporator, Direct Expansion</b>							
Water Volume, gals.	202.0	202.0	236.0	236.0	266.0	318.0	318.0
Maximum Water Side Pressure, PSIG	150	150	150	150	150	150	150
Maximum Refrigerant Side Pressure, PSIG	235	235	235	235	235	235	235
Minimum Chilled Water Flow Rate, gpm	250	250	300	300	350	400	400
Maximum Chilled Water Flow Rate, gpm	1200	1200	1200	1200	1250	1400	1400
Water Connections, inches	10	10	10	10	10	10	10

Due to unit option configuration variances, contact your nearest YORK Sales office for unit weight.

## PHYSICAL DATA (SI - Standard Efficiency)

Refrigerant R-134a	STANDARD EFFICIENCY								
	MODEL NUMBER (YCAV ___ S/P)								
	YCAV0287	YCAV0307	YCAV0357	YCAV0397	YCAV0417	YCAV0457	YCAV0477	YCAV0507	YCAV0527
<b>General Unit Data</b>									
Number of Independent Refrigerant Circuits	3	3	3	3	4	4	4	4	4
Refrigerant Charge, R-134a, Ckt.-1/Ckt.-2, kg.	84 / 77 / 77	84 / 84 / 77	84 / 84 / 105	105 / 105 / 105	84 / 84 / 84 / 84	105 / 84 / 84 / 84	105 / 105 / 84 / 84	105 / 105 / 84 / 105	105 / 105 / 105 / 105
Oil Charge, Ckt.-1/Ckt.-2, liters	19 / 15 / 15	19 / 19 / 15	19 / 19 / 19	19 / 19 / 19	19 / 19 / 19 / 19	19 / 19 / 19 / 19	19 / 19 / 19 / 19	19 / 19 / 19 / 19	19 / 19 / 19 / 19
Glycol Charge (43% concentration), liters	0	0	0	0	0	0	0	0	0
<b>Compressors, Semihermetic Screw</b>									
Quantity per Chiller	3	3	3	3	4	4	4	4	4
<b>Condensers, High Efficiency Fin/Tube with Integral Subcooler</b>									
Total Chiller Coil Face Area, m <sup>2</sup>	35	38	44	49	55	57	60	60	65
Number of Rows	3	3	3	3	3	3	3	3	3
Fins per meter	669	669	669	669	669	669	669	669	669
<b>Condenser Fans</b>									
Number, Ckt.-1/Ckt.-2	5/4/4	5/5/4	5/5/6	6/6/6	5 / 5 / 5 / 5	6 / 5 / 5 / 5	6 / 6 / 5 / 5	6 / 6 / 5 / 6	6 / 6 / 6 / 6
<b>Standard Fans</b>									
Fan Motor, HP/kW	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50
Fan & Motor Speed, revs./sec.	19	19	19	19	19	19	19	19	19
Fan Diameter, mm	899.2	899.2	899.2	899.2	899.2	899.2	899.2	899.2	899.2
Fan Tip Speed, m/sec.	54	54	54	54	54	54	54	54	54
Total Chiller Airflow, l/sec.	79768	85904	98176	110448	122720	128856	134992	134992	147264
<b>Low Noise Fans</b>									
Fan Motor, HP/kW	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50
Fan & Motor Speed, revs./sec.	14	14	14	14	14	14	14	14	14
Fan Diameter, mm	899.2	899.2	899.2	899.2	899.2	899.2	899.2	899.2	899.2
Fan Tip Speed, m/sec.	39	39	39	39	39	39	39	39	39
Total Chiller Airflow, l/sec.	79768	85904	98176	110448	122720	128856	134992	134992	147264
<b>Evaporator, Direct Expansion</b>									
Water Volume, liters	764.6	893.3	893.3	893.3	1006.8	1006.8	1203.6	1203.6	1203.6
Maximum Water Side Pressure, Bar	10	10	10	10	10	10	10	10	10
Maximum Refrigerant Side Pressure, Bar	16	16	16	16	16	16	16	16	16
Minimum Chilled Water Flow Rate, l/sec.	16	19	19	19	22	22	25	25	25
Maximum Chilled Water Flow Rate, l/sec.	76	76	76	76	79	79	88	88	88
Water Connections, mm	245	245	245	245	245	245	245	245	245

Due to unit option configuration variances, contact your nearest YORK Sales office for unit weight.

## PHYSICAL DATA (SI - High Efficiency)

Refrigerant R-134a	HIGH EFFICIENCY						
	MODEL NUMBER (YCAV ___ E/V)						
	YCAV0267	YCAV0287	YCAV0327	YCAV0357	YCAV0397	YCAV0417	YCAV0477
<b>General Unit Data</b>							
Number of Independent Refrigerant Circuits	3	3	3	3	4	4	4
Refrigerant Charge, R-134a, Ckt.-1/Ckt.-2, kg.	84 / 84 / 77	84 / 84 / 84	84 / 84 / 105	105 / 105 / 105	84 / 84 / 84 / 84	105 / 105 / 84 / 84	105 / 105 / 105 / 105
Oil Charge, Ckt.-1/Ckt.-2, liters	19 / 19 / 15	19 / 19 / 19	19 / 19 / 19	19 / 19 / 19	19 / 19 / 19 / 19	19 / 19 / 19 / 19	19 / 19 / 19 / 19
Glycol Charge (43% concentration), liters	0	0	0	0	0	0	0
<b>Compressors, Semihermetic Screw</b>							
Quantity per Chiller	3	3	3	3	4	4	4
<b>Condensers, High Efficiency Fin/Tube with Integral Subcooler</b>							
Total Chiller Coil Face Area, m <sup>2</sup>	38	44	44	49	53	60	65
Number of Rows	3	3	3	3	3	3	3
Fins per meter	669	669	669	669	669	669	669
<b>Condenser Fans</b>							
Number, Ckt.-1/Ckt.-2	05/05/04	05/05/06	05/05/06	06/06/06	5 / 5 / 5 / 5	6 / 6 / 5 / 5	6 / 6 / 6 / 6
<b>Standard Fans</b>							
Fan Motor, HP/kW	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50
Fan & Motor Speed, revs./sec.	19	19	19	19	19	19	19
Fan Diameter, mm	899.2	899.2	899.2	899.2	899.2	899.2	899.2
Fan Tip Speed, m/sec.	54	54	54	54	54	54	54
Total Chiller Airflow, l/sec.	85904	98176	98176	110448	122720	134992	147264
<b>Low Noise Fans</b>							
Fan Motor, HP/kW	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50	2/1.50
Fan & Motor Speed, revs./sec.	14	14	14	14	14	14	14
Fan Diameter, mm	899.2	899.2	899.2	899.2	899.2	899.2	899.2
Fan Tip Speed, m/sec.	39	39	39	39	39	39	39
Total Chiller Airflow, l/sec.	85904	98176	98176	110448	122720	134992	147264
<b>Evaporator, Direct Expansion</b>							
Water Volume, liters	764.6	764.6	893.3	893.3	1006.8	1203.6	1203.6
Maximum Water Side Pressure, Bar	10	10	10	10	10	10	10
Maximum Refrigerant Side Pressure, Bar	16	16	16	16	16	16	16
Minimum Chilled Water Flow Rate, l/sec.	16	16	19	19	22	25	25
Maximum Chilled Water Flow Rate, l/sec.	76	76	76	76	79	88	88
Water Connections, mm	245	245	245	245	245	245	245

Due to unit option configuration variances, contact your nearest YORK Sales office for unit weight.



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