

TECHNICAL GUIDE

FOR USE WITH SPLIT SYSTEM COOLING ONLY ELECTRIC OR HYDRONIC HEAT AND HEAT PUMPS

MODELS:

MSPS (PSC Motor)

MSVT (Constant Torque Motor)

MSVE (ECM Motor)

SEE PAGE 2 FOR MODEL NOMENCLATURE



DESCRIPTION:

This fan coil/air handler provides the flexibility for installation in any upflow or horizontal application. These versatile models may be used for split system cooling or heat pump operation. Compact cabinets along with return air options in both the upflow and horizontal positions allow this unit to fit into tight spaces such as closets, attics, and crawl spaces.

FEATURES:

CABINET-The cabinet is constructed of heavy gauge galvanized steel. Standard cabinets are pre-painted steel for the top, coil and blower doors, the cabinet wrapper is heavy gauge embossed galvanized steel. Options are available for fully painted cabinets. The cabinet is insulated with 1" R-4.5 insulation to prevent sweating and to improve efficiency. Units can be ordered to meet 2% air leakage codes where required.

BLOWERS-Blowers are sized to both circulate air quietly and efficiently. All blower/motor combinations are fully factory tested in our labs to optimize air flow and power usage. Available motors include standard 3 speed PSC type motors, 5 tap constant torque motors, and full variable speed Electronically Commutated Motors (ECM).

COILS-Mortex Products, Inc. has manufactured its own coils for over 50 years. Using the latest in heat transfer technology, our rifled copper tube/aluminum fin coils produce high performance ratings and provide long lasting quality. All coils are pressure tested with nitrogen at 500 psig underwater. All copper coils are UL and ETL certified at 2500 psig burst test pressure. All coils are fully tested in our own Psychrometric environmental chambers. Contact factory for other tube and fin options.

TXV'S-Factory or field mounted, bolt on Thermostat Expansion Valves are available in either R-22 or R-410A. Our TXV's are all non-adjustable and have been optimized per Mortex specifications for performance and efficiency.

ELECTRIC HEATERS-Electric heaters are available from 5 to 20 KW with or without circuit breakers, NOTE: Circuit breakers are required per UL over 10 KW. Electric heaters can be factory installed or provided as a field installed accessory.

HYDRONIC HEAT-Optional hot water coils are available for all models. These coils are also manufactured at Mortex and are available in 2,3,4 rows, see heating performance tables for further data.



Mortex Products Inc.
501 Terminal Road
Fort Worth, TX 76106
800-444-6354
www.mortx.com

UNIT NOMENCLATURE

MS	VE	36	15	B	862T	AA
I	II	III	IV	V	VI	VII

I	Series: MS=Multi-position Single Piece US=Upflow Single Piece
II	Motor Type: PS=Standard PSC VT=Variable Speed Constant Torque VE=Variable ECM (Electronic Commutated Motor)
III	Unit Size (Capacity In MBTUH): 12 Thru 24 Small Cabinet (44) 25 Thru 36 Medium Cabinet (45) 37 Thru 72 Large Cabinet (18) OS=No Cooling Small Cabinet (44) OM=No Cooling Medium Cabinet (44) OL=No Cooling Large Cabinet(18)
IV	Heating Configuration: 00=Cooling Only XX=Electric Heating Capacity In KW 2P=2 Row HW Coil With Pump 3P=3 Row HW Coil With Pump 4P=4 Row HW Coil With Pump 2N=2 Row HW Coil No Pump 3N=3 Row HW Coil No Pump 4N=4 Row HW Coil No Pump
V	Voltage: A=120v 1 Ph. 50/60 Hz. B=208/230v 1 Ph. 50/60 Hz. Contact Factory For Other Voltage Availability
VI	Evaporator Coil Configuration: 862T=DX Coil Geometry And Metering Device (Refer To Coil Nomenclature) 8K2N=CW Coil Geometry (Refer To Coil Nomenclature)
VII	Option Code: AA= Standard Configuration

			<p>Mortex Products Inc. 501 Terminal Road Fort Worth, TX 76106 800-444-6354 www.mortx.com</p>
---	---	--	---

FIELD INSTALLED ELECTRIC HEAT KIT NOMENCLATURE

I	II	III	IV	V
B	SE	HK	05	B

I	<p>TYPE</p> <p>B=Breaker S=No Breaker</p>
----------	--

II	<p>SERIES</p> <p>SE=Small Cabinet ECM Motor MSVE18,24 ME=Medium Cabinet ECM Motor MSVE25,30,36 LE=Large Cabinet ECM Motor MSVE37,42,48,60,72 SX=Small Cabinet X-13 Motor MSVT18,24 MX=Medium Cabinet X-13 Motor MSVT25,30,36 LX=Large Cabinet X-13 Motor MSVT37,42,48,60,72 SP=Small Cabinet PDC Motor MSPS18,24 MP=Medium Cabinet PSC Motor MSPS25,30,36 LP=Large Cabinet PSC Motor MSPS37,42,48,60,72</p>
-----------	--

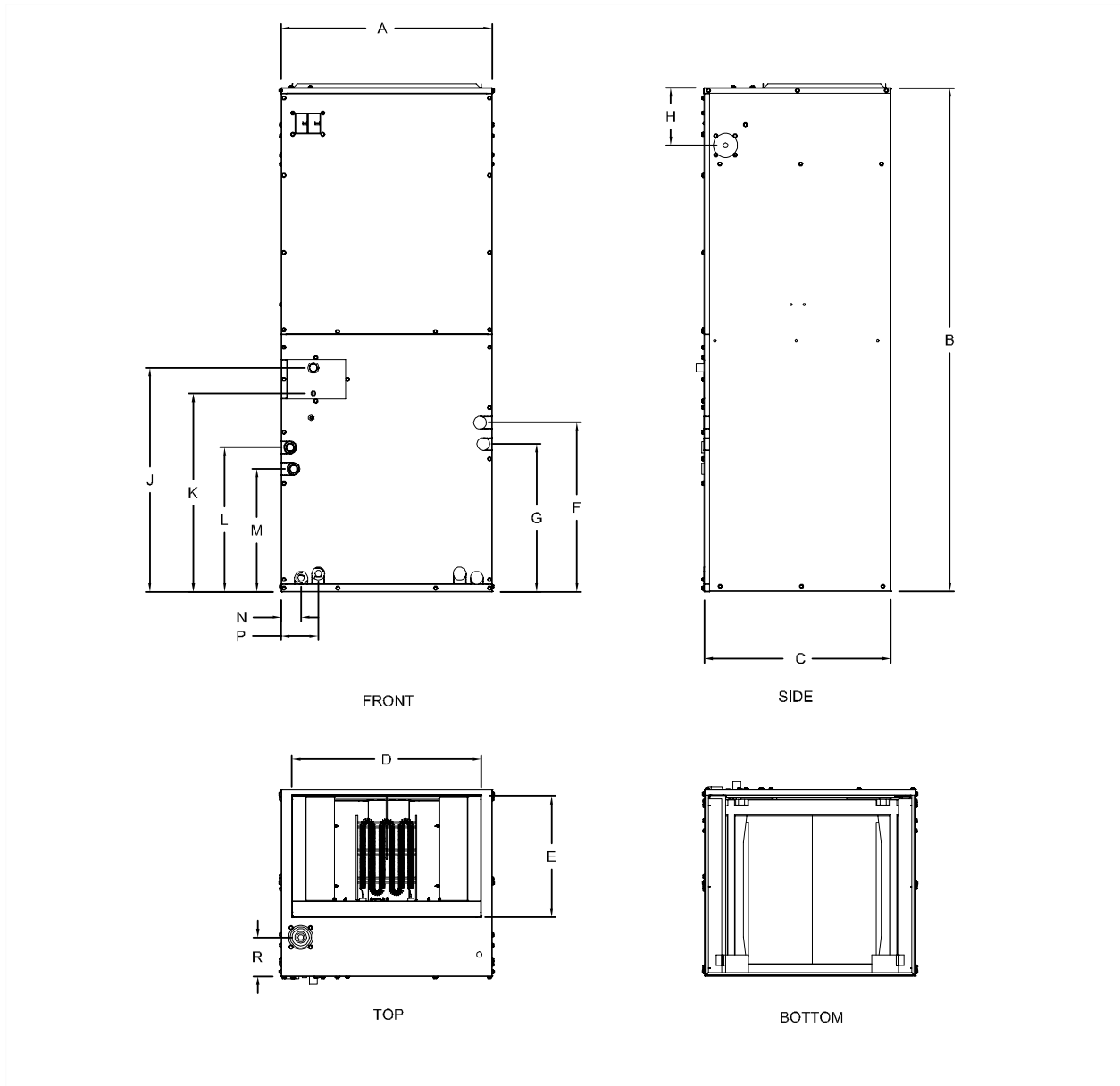
III	<p>ACCESSORY</p> <p>HK=Electric Heat Kit</p>
------------	---

IV	<p>HEATING CAPACITY KW @ 240V/1PH.</p> <p>05=5 KW 10=10KW 15=15KW 20=20KW</p>
-----------	--

V	<p>VOLTAGE</p> <p>B=208/240V 1PH 50/60HZ</p>
----------	---

			<p>Mortex Products Inc. 501 Terminal Road Fort Worth, TX 76106 800-444-6354 www.mortx.com</p>
---	---	--	---

DIMENSIONAL DATA COOL ONLY OR ELECTRIC HEAT



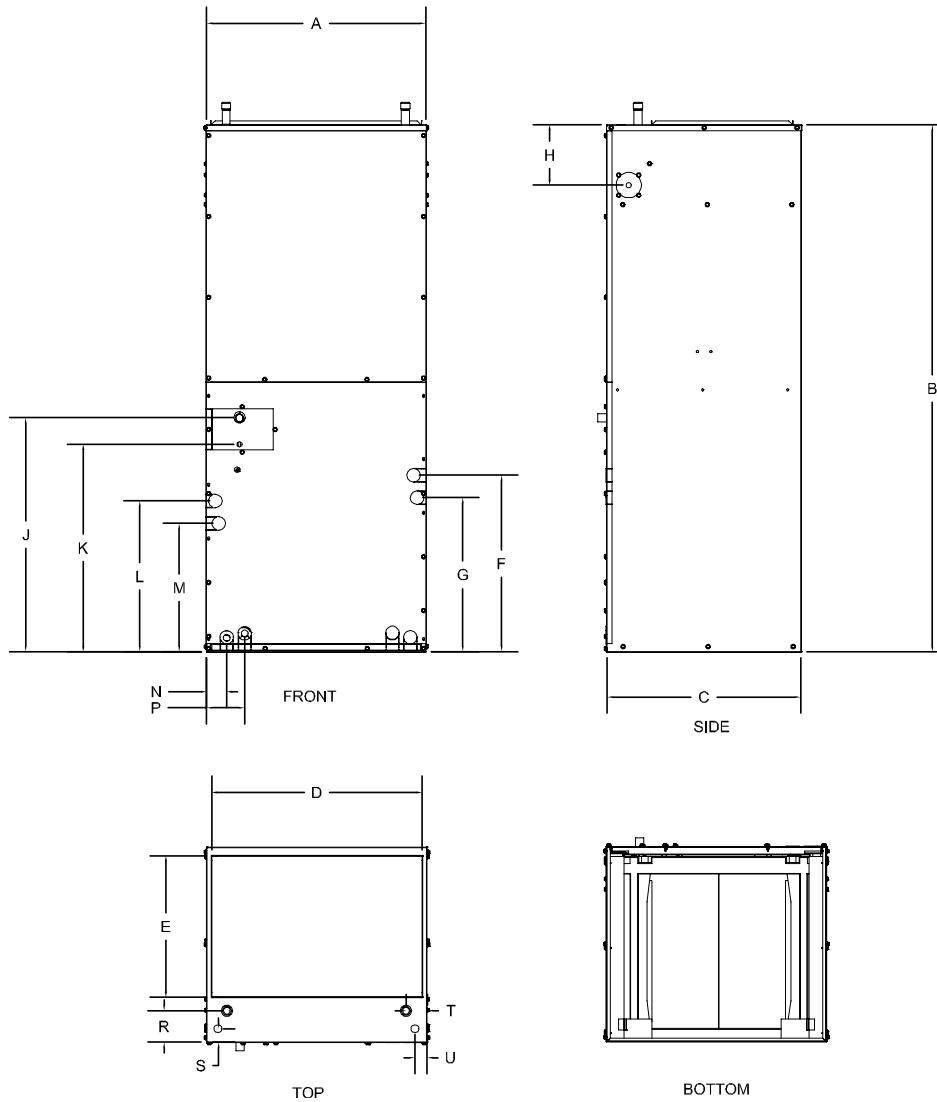
DIMENSIONAL DATA MULTI-POSITION AIR HANDLER COOL ONLY OR ELECTRIC HEAT

MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R
MS**18, 24	17.65	42.80	21.02	15.60	12.56	13.50	10.93	6.82	16.79	13.80	10.92	10.81	2.04	1.54	5.02
MS**30,36	21.09	48.62	20.99	18.93	12.56	14.43	13.05	6.62	20.12	17.12	12.68	10.30	2.35	4.35	5.04
MS--37,42,48,60,72	24.50	56.89	21.81	23.34	21.23	19.77	17.27	6.72	26.17	23.17	16.86	14.36	2.32	4.32	4.54



Mortex Products Inc.
 501 Terminal Road
 Fort Worth, TX 76106
 800-444-6354
 www.mortx.com

DIMENSIONAL DATA HYDRONIC HEAT



DIMENSIONAL DATA MULTI-POSITION AIR HANDLER HYDRONIC HEAT

MODEL	A	B	C	D	E	F	G	H	J
MS**18, 24	17.65	42.80	21.02	16.06	14.96	13.50	10.93	6.82	16.79
MS**30,36	21.09	48.62	20.99	18.93	14.59	14.43	13.05	6.62	20.12
MS--37,42,48,60,72	24.50	56.89	21.81	23.56	15.81	19.77	17.27	6.72	26.17
MODEL	K	L	M	N	P	R	S	T	U
MS**18, 24	13.80	10.92	10.81	2.04	1.54	3.29	1.04	1.54	1.04
MS**30,36	17.12	12.68	10.30	2.35	4.35	3.77	1.77	2.54	1.54
MS--37,42,48,60,72	23.17	16.86	14.36	2.32	4.32	3.54	1.53	2.26	1.26



Mortex Products Inc.
 501 Terminal Road
 Fort Worth, TX 76106
 800-444-6354
 www.mortx.com

Note: All dimensions are approximate.

BLOWER PERFORMANCE ECM 2.3 / EON MOTOR AIR FLOW											
Model Number	Nominal Tons	Motor HP	Volts 1 Ph. 50/60 Hz.	Motor Code	Blower Wheel	Jumper	CFM @ 0.10"	CFM @ 0.20"	CFM @ 0.30"	CFM @ 0.40"	CFM @ 0.50"
MSVE18,24 Electric	1.5 & 2.0	0.33	240	VA	9 X 6	A	837	837	824	817	806
						B	744	733	721	717	713
						C	705	697	689	681	677
						D	634	620	615	611	602
MSVE18,24 Hydronic	1.5 & 2.0	0.33	120	VG	10X7	A	884	884	884	880	880
						B	799	792	789	789	789
						C	691	691	691	691	690
						D	589	589	589	589	584
MSVE25,30,36 Electric	1.5 Thru 3.0	0.50	240	VB	10 X 7	A	1422	1421	1421	1416	1416
						B	1215	1214	1214	1214	1208
						C	898	989	989	982	969
						D	865	865	865	866	858
MSVE38 Electric	3.5	0.50	240	VB-3.5	10 X 7	A	1541	1516	1478	1453	1426
						B	1367	1344	1311	1287	1242
						C	1205	1174	1135	1107	1072
						D	1096	1066	1030	870	843
MSVE46 Electric	4	0.50	240	VB-4.0	10 X 7	A	1566	1533	1502	1474	1439
						B	1392	1358	1320	1298	1265
						C	1213	1189	1161	1124	1086
						D	1116	1078	1038	892	860
MSVE25,30,36 Hydronic	1.5 Thru 3.0	0.50	120	VH	10 X 7	A	1294	1255	1200	1137	1058
						B	1131	1104	1075	1082	1023
						C	974	942	909	853	831
						D	808	769	736	702	657
MSVE37,42,48,60 Electric	3.0 Thru 5.0	0.75	240	VC	12 X 9	A	1957	1919	1900	1871	1847
						B	1576	1565	1547	1517	1487
						C	1495	1482	1451	1432	1409
						D	1411	1385	1372	1338	1311
MSVE37,42,48,60 Hydronic	3.0 Thru 5.0	1.00	120	VI	12 X 9	A	2001	1994	1994	1987	1972
						B	1820	1820	1820	1804	1796
						C	1587	1599	1604	1604	1604
						D	1385	1385	1385	1385	1385
MSVE72 Electric	6.0	1.00	240	VU	12 X 10	A	2393	2393	2393	2393	2388
						B	2227	2227	2221	2221	2221
						C	2012	2012	2005	2005	2005
						D	1795	1795	1795	1795	1795
MSVE72 Hydronic	6.0	1.00	120	VW	12 X 10	A	2132	2119	2091	2077	2063
						B	1921	1901	1901	1886	1886
						C	1724	1724	1724	1724	1707
						D	1508	1508	1508	1488	1488

			<p>Mortex Products Inc. 501 Terminal Road Fort Worth, TX 76106 800-444-6354 www.mortx.com</p>
---	---	--	--

BLOWER PERFORMANCE ECM 2.3 / EON MOTOR AMPS											
Model Number	Nominal Tons	Motor HP	Volts 1 Ph. 50/60	Motor Code	Blower Wheel	Jumper	AMPS @ 0.10"	AMPS @ 0.20"	AMPS @ 0.30"	AMPS @ 0.40"	AMPS @ 0.50"
MSVE18, 24 Electric	1.5 & 2.0	0.33	240	VA	9 X 6	A	0.530	0.610	0.650	0.710	0.780
						B	0.430	0.470	0.490	0.520	0.560
						C	0.370	0.430	0.470	0.500	0.530
						D	0.310	0.350	0.380	0.420	0.450
MSVE18, 24 Hydronic	1.5 & 2.0	0.33	120	VG	10X7	A	3.120	3.470	3.730	4.060	4.370
						B	2.440	2.710	2.950	3.240	3.620
						C	1.760	2.090	2.400	2.690	2.910
						D	1.270	1.530	1.810	2.090	2.310
MSVE25, 30,36 Electric	1.5 Thru 3.0	0.50	240	VB	10 X 7	A	1.690	1.730	1.790	1.950	2.030
						B	1.020	1.110	1.190	1.270	1.390
						C	0.580	0.640	0.710	0.780	0.850
						D	0.440	0.510	0.570	0.640	0.690
MSVE38 Electric	3.5	0.50	240	VB-3.5	10 X 7	A	1.410	1.430	1.510	1.550	1.600
						B	1.010	1.050	1.100	1.130	1.180
						C	0.710	0.770	0.820	0.860	0.870
						D	0.570	0.610	0.650	0.670	0.710
MSVE46 Electric	4.0	0.50	240	VB-4.0	10 X 7	A	1.410	1.460	1.510	1.550	1.570
						B	1.020	1.050	1.100	1.150	1.190
						C	0.710	0.760	0.800	0.820	0.870
						D	0.570	0.610	0.640	0.680	0.720
MSVE25, 30,36 Hydronic	1.5 Thru 3.0	0.50	120	VH	10 X 7	A	3.700	3.800	3.700	3.500	3.400
						B	2.700	2.800	3.000	3.100	3.200
						C	1.900	2.000	2.100	2.100	2.300
						D	1.200	1.300	1.500	1.600	1.700
MSVE37, 42,48,60 Electric	3.0 Thru 5.0	0.75	240	VC	12 X 9	A	1.900	1.900	2.100	2.300	2.500
						B	1.100	1.200	1.400	1.500	1.600
						C	0.800	0.900	1.100	1.200	1.200
						D	0.900	1.000	1.200	1.300	1.400
MSVE37, 42,48,60 Hydronic	3.0 Thru 5.0	1.00	120	VI	12 X 9	A	6.240	6.400	6.690	7.110	6.310
						B	4.970	5.130	5.320	5.510	5.650
						C	3.540	3.750	3.860	4.120	4.330
						D	2.580	2.720	2.850	3.070	3.290
MSVE72 Electric	6.0	1.00	240	VU	12 X 10	A	2.920	3.130	3.290	3.570	3.750
						B	2.280	2.390	2.620	2.780	2.960
						C	1.650	1.810	2.030	2.130	2.330
						D	1.210	1.310	1.510	1.610	1.730
MSVE72 Hydronic	6.0	1.00	120	VW	12 X 10	A	8.170	8.410	8.680	8.990	9.200
						B	5.760	6.100	6.410	6.640	7.070
						C	4.010	4.390	4.740	5.060	5.460
						D	2.690	2.910	3.150	3.410	3.670



Mortex Products Inc.
 501 Terminal Road
 Fort Worth, TX 76106
 800-444-6354
 www.mortx.com

BLOWER PERFORMANCE X-13 MOTOR AIR FLOW											
Model Number	Nominal Tons	Motor HP	Volts 1 Ph. 50/60 Hz.	Motor Code	Blower Wheel	Motor Tap	CFM @ 0.10"	CFM @ 0.20"	CFM @ 0.30"	CFM @ 0.40"	CFM @ 0.50"
MSVT18,24 Electric	1.5 & 2.0	0.33	240	VD	9 X 6	1	795	783	726	709	691
						2	872	865	806	790	775
						3	1002	970	929	884	827
						4	1088	1048	998	938	872
						5	1114	1073	1018	960	888
MSVT18,24 Hydronic	1.5 & 2.0	0.33	120	VJ	9 X 6	1	693	666	657	618	598
						2	753	745	711	693	675
						3	785	753	745	720	702
						4	838	816	808	777	753
						5	874	860	846	816	769
MSVT25,30,36 Electric	3.5	0.50	240	VE	10 X 7	1	814	791	752	711	658
						2	846	828	799	768	711
						3	1059	1036	1007	982	957
						4	1152	1136	1104	1087	1053
						5	1247	1213	1192	1167	1136
MSVT38 Electric	3.5	0.50	240	VE-3.5	10 X 7	1	1005	960	920	870	843
						2	1096	1066	1030	999	967
						3	1205	1174	1135	1107	1072
						4	1367	1344	1311	1287	1242
						5	1541	1516	1478	1453	1426
MSVT46 Electric	4.0	0.50	240	VE-4.0	10 X 7	1	1066	982	948	892	860
						2	1116	1078	1038	1010	973
						3	1213	1189	1161	1124	1086
						4	1392	1358	1320	1298	1265
						5	1566	1533	1502	1474	1439
MSVT25,30,36 Hydronic	1.5 Thru 3.0	0.50	120	VK	10 X 7	1	714	668	639	587	517
						2	874	845	806	782	732
						3	1082	1046	1015	983	951
						4	1156	1122	1094	1065	1028
						5	1313	1262	1226	1156	1077
MSVT37,42,48,60 Electric	3.0 Thru 5.0	0.75	240	VF	12 X 9	1	1339	1247	1198	1160	1107
						2	1467	1415	1394	1339	1294
						3	1556	1518	1478	1427	1385
						4	1661	1617	1590	1532	1493
						5	2070	2034	1997	1951	1897
MSVT37,42,48,60 Hydronic	3.0 Thru 5.0	1.00	120	VL	12 X 9	1	1479	1448	1416	1373	1341
						2	1558	1529	1499	1459	1438
						3	1641	1614	1596	1548	1510
						4	1783	1749	1723	1670	1625
						5	1935	1879	1764	1764	1694
MSVT72 Electric	6.0	1.00	240	VV	12 X 10	1	1910	1865	1826	1787	1787
						2	2088	2054	2019	1969	1932
						3	2240	2201	2162	2129	2088
						4	2370	2339	2290	2246	2208
						5	2504	2470	2441	2393	2351
MSVT72 Hydronic	6.0	1.00	120	VX	12 X 10	1	1637	1619	1584	1547	1510
						2	1795	1771	1730	1697	1663
						3	1887	1865	1842	1803	1754
						4	1990	1954	1903	1849	1787
						5	2040	1990	1925	1872	1810



Mortex Products Inc.
 501 Terminal Road
 Fort Worth, TX 76106
 800-444-6354
 www.mortx.com

BLOWER PERFORMANCE X-13 MOTOR AMPS											
Model Number	Nominal Tons	Motor HP	Volts 1 Ph. 50/60 Hz.	Motor Code	Blower Wheel	Motor Tap	AMPS @ 0.10"	AMPS @ 0.20"	AMPS @ 0.30"	AMPS @ 0.40"	AMPS @ 0.50"
MSVT18,24 Electric	1.5 & 2.0	0.33	240	VD	9 X 6	1	0.370	0.400	0.420	0.430	0.450
						2	0.440	0.470	0.480	0.490	0.520
						3	0.490	0.500	0.530	0.540	0.550
						4	0.510	0.530	0.550	0.580	0.590
						5	0.660	0.670	0.700	0.710	0.720
MSVT18,24 Hydronic	1.5 & 2.0	0.33	120	VJ	9 X 6	1	0.900	0.900	1.000	1.100	1.200
						2	1.100	1.200	1.200	1.200	1.300
						3	1.200	1.200	1.300	1.300	1.310
						4	1.400	1.400	1.500	1.510	1.600
						5	1.600	1.700	1.700	1.710	1.800
MSVT25,30,36 Electric	1.5 Thru 3.0	0.50	240	VE	10 X 7	1	0.650	0.670	0.700	0.720	0.750
						2	0.810	0.840	0.870	0.900	0.940
						3	1.120	1.150	1.180	1.220	1.210
						4	1.350	1.380	1.410	1.440	1.450
						5	1.590	1.610	1.620	1.630	1.660
MSVT38 Electric	3.5	0.50	240	VE-3.5	10 X 7	1	0.450	0.490	0.530	0.550	0.590
						2	0.570	0.610	0.650	0.670	0.710
						3	0.710	0.770	0.820	0.860	0.870
						4	1.010	1.050	1.100	1.130	1.180
						5	1.410	1.430	1.510	1.550	1.600
MSVT46 Electric	4.0	0.50	240	VE-4.0	10 X 7	1	0.450	0.490	0.530	0.540	0.580
						2	0.570	0.610	0.640	0.680	0.720
						3	0.710	0.760	0.800	0.820	0.870
						4	1.020	1.050	1.100	1.150	1.190
						5	1.410	1.460	1.510	1.550	1.570
MSVT25,30,36 Hydronic	1.5 Thru 3.0	0.50	120	VK	10 X 7	1	1.500	1.500	1.600	1.700	1.710
						2	2.300	2.400	2.400	2.410	2.410
						3	2.600	2.600	2.600	2.610	2.620
						4	2.600	2.600	2.610	2.620	2.630
						5	2.700	2.700	2.710	2.710	2.720
MSVT37,42,48,60 Electric	3.0 Thru 5.0	0.75	240	VF	12 X 9	1	0.640	0.640	0.690	0.730	0.770
						2	0.820	0.860	0.900	0.940	1.000
						3	0.960	1.000	1.050	1.090	1.140
						4	1.080	1.120	1.170	1.210	1.290
						5	2.000	2.050	2.090	2.140	2.250
MSVT37,42,48,60 Hydronic	3.0 Thru 5.0	1.00	120	VL	12 X 9	1	2.920	2.970	3.060	3.140	3.250
						2	3.440	3.480	3.590	3.660	3.740
						3	3.950	4.050	4.120	4.210	4.270
						4	5.050	5.120	5.180	5.240	5.270
						5	6.830	6.580	6.260	5.990	5.710
MSVT72 Electric	6.0	1.00	240	VV	12 X 10	1	2.810	2.910	3.000	3.140	3.260
						2	3.680	3.800	3.940	4.030	4.170
						3	4.410	4.550	4.660	4.770	4.900
						4	5.510	5.630	5.720	5.850	5.960
						5	6.690	6.830	6.880	6.970	7.090
MSVT72 Hydronic	6.0	1.00	120	VX	12 X 10	1	3.530	3.630	3.680	3.770	3.820
						2	4.600	4.680	4.760	4.850	4.910
						3	5.460	5.500	5.600	5.610	5.550
						4	6.410	6.430	6.220	6.040	5.830
						5	6.860	6.640	6.440	6.220	6.050



Mortex Products Inc.
 501 Terminal Road
 Fort Worth, TX 76106
 800-444-6354
 www.mortx.com

BLOWER PERFORMANCE PSC MOTOR AIR FLOW											
Model Number	Nominal Tons	Motor HP	Volts 1 Ph. 50/60 Hz.	Motor Code	Blower Wheel	Motor Tap	CFM @ 0.10"	CFM @ 0.20"	CFM @ 0.30"	CFM @ 0.40"	CFM @ 0.50"
MSPS18,24 Electric	1.5 & 2.0	0.33	240	RA	9 X 6	Low	859	822	776	735	674
						Med	925	881	835	779	726
						High	982	931	885	828	757
MSPS18,24 Hydronic	1.5 & 2.0	0.33	120	RJ	9 X 6	Low	772	731	683	635	569
						Med	815	764	718	665	598
						High	836	791	739	678	612
MSPS25,30,36 Electric	2.0 Thru 3.0	0.50	240	RC	10 X 7	Low	1087	1070	1035	999	941
						Med	1280	1230	1169	1115	1035
						High	1448	1378	1304	1222	1154
MSPS25,30,36 Hydronic	2.0 Thru 3.0	0.50	120	RD	10 X 7	Low	930	956	969	950	917
						Med	1206	1190	1154	1105	1043
						High	1412	1355	1281	1217	1139
MSPS37,42,48,60 Electric	3.0 Thru 5.0	0.75	240	RE	12 X 9	Low	1462	1452	1432	1402	1371
						Med	1756	1723	1689	1664	1612
						High	2092	2029	1979	1898	1852
MSPS37,42,48,60 Hydronic	3.0 Thru 5.0	0.75	120	RK	12 X 9	Low	1091	1087	1084	1078	1051
						Med	1456	1446	1446	1446	1426
						High	2231	2171	2103	2040	1989
BLOWER PERFORMANCE PSC MOTOR AMPS											
Model Number	Nominal Tons	Motor HP	Volts 1 Ph. 50/60 Hz.	Motor Code	Blower Wheel	Motor Tap	AMPS @ 0.10"	AMPS @ 0.20"	AMPS @ 0.30"	AMPS @ 0.40"	AMPS @ 0.50"
MSPS18,24 Electric	1.5 & 2.0	0.33	240	RA	9 X 6	Low	1.50	1.40	1.30	1.20	1.10
						Med	1.60	1.50	1.40	1.30	1.20
						High	1.80	1.80	1.70	1.60	1.60
MSPS18,24 Hydronic	1.5 & 2.0	0.33	120	RJ	9 X 6	Low	2.80	2.60	2.50	2.30	2.20
						Med	3.10	2.90	2.80	2.70	2.50
						High	3.70	3.60	3.50	3.40	3.30
MSPS25,30,36 Electric	2.0 Thru 3.0	0.50	240	RC	10 X 7	Low	2.70	2.40	2.30	2.10	1.90
						Med	2.80	2.60	2.40	2.30	2.10
						High	3.20	3.10	3.00	2.80	2.70
MSPS25,30,36 Hydronic	2.0 Thru 3.0	0.50	120	RD	10 X 7	Low	5.90	5.30	5.10	4.70	4.30
						Med	6.50	5.90	5.50	5.10	4.70
						High	6.70	6.30	6.00	5.70	5.40
MSPS37,42,48,60 Electric	3.0 Thru 5.0	0.75	240	RE	12 X 9	Low	3.70	3.50	3.40	3.30	3.20
						Med	4.40	4.10	4.00	3.90	3.70
						High	5.10	4.60	4.50	4.30	4.20
MSPS37,42,48,60 Hydronic	3.0 Thru 5.0	0.75	120	RK	12 X 9	Low	7.60	7.30	7.00	6.90	6.50
						Med	9.80	9.30	8.90	8.70	8.20
						High	13.40	12.90	12.60	12.10	11.90

			<p>Mortex Products Inc. 501 Terminal Road Fort Worth, TX 76106 800-444-6354 www.mortx.com</p>
---	---	--	--

ELECTRICAL DATA

Cabinet Size	Motor Data					Electric Heater Data						Minimum Circuit Ampacity					Maximum Overcurrent Protection					Short-Circuit Current Rating		
	Motor Code	Motor HP	Volts 1 Ph	Motor Type	Motor Amps (1)	No Circuits	Kw (2)	Amps 115V	Amps 208V	Amps 208V	Amps 240V	Amps 240V	MCA 115V	MCA 208V	MCA 208V	MCA 240V	MCA 240V	MOCPP 115V (3,4)	MOCPP 208V (3,4)	MOCPP 208V (3,4)	MOCPP 240V (3,4)	MOCPP 240V (3,4)	kA rms symmetrical	V maximum
								Cr 1	Cr 2	Cr 1	Cr 2	Cr 1	Cr 2	Cr 1	Cr 2	Cr 1	Cr 2	Cr 1	Cr 1	Cr 2	Cr 1	Cr 2		
(42) SMALL CABINET-NOMINAL 1.5 & 2.0 TONS (0 To 10 Kw)																								
MSVE18, 24	VA	0.33	208/240	ECM	0.78	0	0	-	-	-	-	-	0.975	-	0.975	-	-	10.0	-	10.0	-	-	n/a	n/a
	VG	0.33	115	ECM	1.80	0	0	1.80	-	-	-	-	2.25	-	-	-	-	10.0	-	-	-	-	n/a	n/a
MSVT18, 24	VD	0.33	208/240	CTM	0.72	0	0	-	0	-	-	-	0.900	-	0.900	-	-	10.0	-	10.0	-	-	n/a	n/a
	VJ	0.33	115	CTM	2.72	0	0	2.72	-	-	-	-	3.4	-	-	-	-	10.0	-	-	-	-	n/a	n/a
MSPS18, 24	RA	0.33	208/240	PSC	2.00	0	0	-	-	-	-	-	2.50	-	2.50	-	-	10.0	-	10.0	-	-	n/a	n/a
	RJ	0.33	115	PSC	4.40	0	0	4.40	-	-	-	-	5.50	-	-	-	-	10.0	-	-	-	-	n/a	n/a
(45) MEDIUM CABINET-NOMINAL 2.0, 2.5, 3.0 TONS (0 To 15 Kw)																								
MSVE25, 30, 36	VB	0.50	208/240	ECM	2.03	0	0	-	-	-	-	-	2.538	-	2.538	-	-	10.0	-	10.0	-	-	n/a	n/a
	VH	0.50	115	ECM	2.31	0	0	2.31	-	-	-	-	2.9	-	-	-	-	10.0	-	-	-	-	n/a	n/a
MSVT25, 30, 36	VE	0.50	208/240	CTM	1.66	0	0	-	-	-	-	-	2.08	-	2.08	-	-	10.0	-	10.0	-	-	n/a	n/a
	VK	0.50	115	CTM	2.72	0	0	2.72	-	-	-	-	3.40	-	-	-	-	10.0	-	-	-	-	n/a	n/a
MSPS25, 30, 36	RC	0.50	208/240	PSC	3.00	0	0	-	-	-	-	-	3.75	-	3.75	-	-	10.0	-	10.0	-	-	n/a	n/a
	RD	0.50	115	PSC	7.70	0	0	7.70	-	-	-	-	9.63	-	-	-	-	15.0	-	-	-	-	n/a	n/a
(18) LARGE CABINET-NOMINAL 3.0, 3.5, 4.0, 5.0, 6.0 TONS (0 To 20 Kw)																								
MSVE37, 42, 48, 60	VC	0.75	208/240	ECM	2.50	0	0	-	-	-	-	-	3.1	-	3.1	-	-	15.0	-	15.0	-	-	n/a	n/a
	VI	1.00	115	ECM	6.31	0	0	6.3	-	-	-	-	7.9	-	-	-	-	10.0	-	-	-	-	n/a	n/a
MSVE72	VU	1.00	208/240	ECM	3.75	0	0	-	-	-	-	-	4.7	-	4.7	-	-	15.0	-	15.0	-	-	n/a	n/a
	VW	1.00	115	ECM	8.48	0	0	8.5	-	-	-	-	10.6	-	-	-	-	15.0	-	-	-	-	n/a	n/a
MSVT37, 42, 48, 60	VF	0.75	208/240	CTM	2.09	0	0	-	-	-	-	-	2.6	-	2.6	-	-	15.0	-	15.0	-	-	n/a	n/a
	VL	1.00	115	CTM	5.71	0	0	5.7	-	-	-	-	7.1	-	-	-	-	10.0	-	-	-	-	n/a	n/a
MSVT72	VV	1.00	208/240	CTM	5.72	0	0	-	-	-	-	-	7.2	-	7.2	-	-	15.0	-	15.0	-	-	n/a	n/a
	VX	1.00	115	CTM	8.48	0	0	8.5	-	-	-	-	10.6	-	-	-	-	15.0	-	-	-	-	n/a	n/a
MSPS37, 42, 48, 60	RE	0.75	208/240	PSC	3.60	0	0	-	-	-	-	-	4.5	-	4.5	-	-	10.0	-	10.0	-	-	n/a	n/a
	RK	0.75	115	PSC	11.00	0	0	11.0	-	-	-	-	13.8	-	-	-	-	15.0	-	-	-	-	n/a	n/a

(1) Rated Motor Amps (at DOE External Static Rating Point)
 (2) Nominal Kw At 240V (Derate 25% For 208V)
 (3) Fuse or HACR Breaker
 (4) Maximum Overcurrent Device, Overcurrent Protection Installed On Breaker Models Are Sized Per MCA

			<p>Mortex Products Inc. 501 Terminal Road Fort Worth, TX 76106 800-444-6354 www.mortx.com</p>
---	---	--	--

COOLING PERFORMANCE DATA:								
CHILLED WATER COIL MODEL	Cooling Capacities @ Entering Water Temperature				CFM	GPM	PRESS. DROP WATER (FT-WTR)	PRESS. DROP AIR (WC)
	80°F/67°F/45°F		80°F/67°F/42°F					
	Total	Sensible	Total	Sensible				
CW018A8K3-44A CW024A8K3-44A 16 x 16, 4 Row, 8 Circuits, 15 FPI	16,640	11,680	18,515	12,495	400	2.0	0.53	0.06
	20,546	13,446	22,871	14,532		4.0	1.81	
	21,992	14,125	24,492	15,347		6.0	3.71	
	19,765	15,353	21,855	16,161	600	2.0	0.53	0.12
	26,171	17,979	29,062	19,394		4.0	1.81	
	29,218	19,394	32,500	21,010		6.0	3.71	
	21,875	18,669	24,101	19,469	800	2.0	0.53	0.19
	30,078	21,869	33,437	23,469		4.0	1.81	
	34,531	23,736	38,486	25,603		6.0	3.71	
	22,773	20,296	25,000	21,191	900	2.0	0.53	0.24
	31,640	23,877	35,156	25,071		4.0	1.81	
	36,778	25,967	40,859	27,459		6.0	3.71	
CW036A8K5-45A 20 x 16, 4 Row, 10 Circuits, 15 FPI	33,828	23,658	37,656	25,272	800	5.0	1.81	0.13
	37,393	25,272	41,562	26,885		7.0	3.29	
	39,531	26,078	44,062	28,229		9.0	5.19	
	37,656	27,337	41,796	29,337	1,000	5.0	1.81	0.19
	42,226	29,337	47,089	31,334		7.0	3.29	
	45,292	30,677	50,625	33,004		9.0	5.19	
	40,585	30,941	45,000	32,925	1200	5.0	1.81	0.28
	46,250	33,322	51,406	35,305		7.0	3.29	
	50,156	34,908	55,937	37,288		9.0	5.19	
	43,164	34,411	47,812	36,246	1400	5.0	1.81	0.34
	49,531	36,705	55,000	38,999		7.0	3.29	
	54,179	38,541	60,312	41,293		9.0	5.19	
CW048A9K9-18A CW060A9K9-18A 28 x 17.5, 4 Row, 14 Circuits, 15 FPI	52,578	36,317	58,490	38,738	1200	8.0	2.42	0.12
	56,093	37,931	62,431	40,353		10.0	3.59	
	59,492	39,142	66,127	42,370		13.0	5.72	
	56,731	40,280	63,203	43,090	1400	8.0	2.42	0.17
	61,093	42,153	67,968	44,963		10.0	3.59	
	65,512	44,027	72,968	47,305		13.0	5.72	
	60,468	44,190	67,089	46,852	1600	8.0	2.42	0.21
	65,312	45,787	72,812	48,981		10.0	3.59	
	70,781	48,449	78,882	52,176		13.0	5.72	
	63,593	47,652	70,625	50,631	1800	8.0	2.42	0.25
	69,214	50,035	77,097	53,013		10.0	3.59	
	75,468	52,418	83,906	55,992		13.0	5.72	
66,360	50,676	73,593	53,966	2000	8.0	2.42	0.30	
77,578	53,308	80,781	56,599		10.0	3.59		
79,492	56,599	88,593	60,548		13.0	5.72		
CW072A9K9-18A 28 x 17.5, 4 Row, 14 Circuits, 15 FPI	69,063	54,709	76,406	57,588	2200	8.0	2.62	0.35
	75,781	56,869	84,063	60,468		10.0	3.89	
	83,281	60,468	92,813	64,067		13.0	6.20	
	70,234	56,283	77,664	58,534	2300	8.0	2.62	0.37
	77,188	58,534	85,625	62,287		10.0	3.89	
	85,002	61,536	94,688	66,039		13.0	6.20	
	71,367	57,783	78,906	60,906	2400	8.0	2.62	0.40
	78,438	60,125	87,031	64,029		10.0	3.89	
	86,748	64,029	96,563	67,934		13.0	6.20	



Mortex Products Inc.
501 Terminal Road
Fort Worth, TX 76106
800-444-6354
www.mortx.com

4 ROW CHILLED WATER "A" COIL - HEATING CAPACITIES

COIL MODEL NUMBER	HEATING CFM	95°F EWT 20°F Δt 68°F EDB					100°F EWT 20°F Δt 68°F EDB				
		BTUH	LAT	GPM	APD	WPD	BTUH	LAT	GPM	APD	WPD
CW018A8K3	500	8,480	83.6	0.8	0.13	0.4	11,800	89.8	1.2	0.13	0.7
CW024A8K3	600	9,760	83.0	1.0	0.16	0.5	13,640	89.0	1.4	0.16	0.9
CW036A8K5	1000	15,170	82.0	1.5	0.25	0.8	21,320	87.7	2.1	0.25	1.5
CW048A9K9	1400	22,170	82.6	2.2	0.22	1.3	30,950	88.4	3.1	0.22	2.3
CW060A9K9	1800	26,730	81.7	2.7	0.21	1.8	37,490	87.2	3.8	0.21	3.3
CW072A9K9	2200	30,900	81.0	3.1	0.29	2.3	43,400	86.2	4.4	0.29	2.5

COIL MODEL NUMBER	HEATING CFM	105°F EWT 20°F Δt 68°F EDB					110°F EWT 20°F Δt 68°F EDB				
		BTUH	LAT	GPM	APD	WPD	BTUH	LAT	GPM	APD	WPD
CW018A8K3	500	14,860	95.4	1.5	0.13	1.0	17,760	100.8	1.8	0.13	1.4
CW024A8K3	600	17,260	94.5	1.7	1.16	1.3	20,700	99.8	2.1	0.16	1.8
CW036A8K5	1000	27,140	93.0	2.7	0.25	2.4	32,710	98.2	3.3	0.25	2.3
CW048A9K9	1400	39,180	93.8	3.9	0.22	3.6	47,030	99.0	4.7	0.22	2.9
CW060A9K9	1800	47,700	92.4	4.8	0.21	2.9	57,510	97.5	5.8	0.21	4.1
CW072A9K9	2200	55,500	91.3	5.6	0.29	3.8	67,190	96.2	6.8	0.29	5.4

COIL MODEL NUMBER	HEATING CFM	115°F EWT 20°F Δt 68°F EDB					120°F EWT 20°F Δt 68°F EDB				
		BTUH	LAT	GPM	APD	WPD	BTUH	LAT	GPM	APD	WPD
CW018A8K3	500	20,560	105.9	2.1	0.13	1.8	23,330	111.0	2.3	0.13	2.2
CW024A8K3	600	24,020	104.9	2.4	0.16	2.3	27,770	109.9	2.7	0.16	2.9
CW036A8K5	1000	38,120	103.2	3.8	0.25	4.3	43,420	108.0	4.4	0.25	3.4
CW048A9K9	1400	54,600	104.0	5.5	0.22	3.7	62,100	108.9	6.3	0.22	4.6
CW060A9K9	1800	67,040	102.3	6.7	0.21	5.3	76,400	107.1	7.7	0.21	6.7
CW072A9K9	2200	78,540	100.9	7.9	0.29	7.0	89,700	105.6	9.0	0.29	5.2

COIL MODEL NUMBER	HEATING CFM	125°F EWT 20°F Δt 68°F EDB					130°F EWT 20°F Δt 68°F EDB				
		BTUH	LAT	GPM	APD	WPD	BTUH	LAT	GPM	APD	WPD
CW018A8K3	500	25,999	115.9	2.6	0.13	2.7	28,650	120.8	2.9	0.13	3.2
CW024A8K3	600	30,470	114.8	3.1	0.16	3.5	33,640	119.7	3.4	0.16	4.2
CW036A8K5	1000	48,650	112.9	4.9	0.25	4.1	53,820	117.6	5.4	0.25	4.9
CW048A9K9	1400	69,450	113.7	7.0	0.22	5.6	76,730	118.5	7.7	0.22	6.7
CW060A9K9	1800	67,040	102.3	6.7	0.21	5.3	94,780	116.6	9.6	0.21	5.6
CW072A9K9	2200	100,710	110.2	10.2	0.29	6.3	111,630	114.8	11.3	0.29	7.4

COIL MODEL NUMBER	HEATING CFM	135°F EWT 20°F Δt 68°F EDB					140°F EWT 20°F Δt 68°F EDB				
		BTUH	LAT	GPM	APD	WPD	BTUH	LAT	GPM	APD	WPD
CW018A8K3	500	31,290	125.7	3.2	0.13	3.7	33,910	130.5	3.4	0.13	4.3
CW024A8K3	600	36,780	124.5	3.7	0.16	4.9	39,890	129.3	4.0	0.16	3.8
CW036A8K5	1000	58,940	122.4	6.0	0.25	5.7	64,040	127.1	6.5	0.25	6.6
CW048A9K9	1400	83,940	123.3	8.5	0.22	4.6	91,110	128.0	9.2	0.22	5.2
CW060A9K9	1800	103,860	121.2	10.5	0.21	6.5	112,880	125.8	11.4	0.21	7.5
CW072A9K9	2200	122,470	119.3	12.4	0.29	8.6	123,900	123.9	13.5	0.29	9.8

COIL MODEL NUMBER	HEATING CFM	160°F EWT 20°F Δt 68°F EDB					180°F EWT 20°F Δt 68°F EDB				
		BTUH	LAT	GPM	APD	WPD	BTUH	LAT	GPM	APD	WPD
CW018A8K3	500	44,270	149.7	4.5	0.13	4.5	54,400	168.6	5.6	0.13	6.4
CW024A8K3	600	52,240	148.3	5.3	0.16	5.9	64,500	167.1	6.6	0.16	8.5
CW036A8K5	1000	84,220	145.7	8.6	0.25	6.8	104,210	164.1	10.7	0.25	9.6
CW048A9K9	1400	119,520	146.7	12.2	0.22	8.1	147,660	165.3	15.1	0.22	9.4
CW060A9K9	1800	148,630	144.1	15.1	0.21	9.5	184,070	162.3	18.9	0.21	13.3
CW072A9K9	2200	176,000	141.8	17.9	0.29	12.5	218,370	159.5	22.4	0.29	17.5

COIL MODEL NUMBER	HEATING CFM	190°F EWT 20°F Δt 68°F EDB					200°F EWT 20°F Δt 68°F EDB				
		BTUH	LAT	GPM	APD	WPD	BTUH	LAT	GPM	APD	WPD
CW018A8K3	500	59,650	178.0	6.1	0.13	7.5	64,750	187.4	6.7	0.13	8.6
CW024A8K3	600	70,540	176.4	7.3	0.16	10.0	76,600	185.7	7.9	0.16	11.5
CW036A8K5	1000	114,160	173.3	11.8	0.25	11.1	124,090	182.4	12.8	0.25	12.7
CW048A9K9	1400	161,670	174.5	16.6	0.22	10.8	175,650	183.7	18.1	0.22	12.3
CW060A9K9	1800	201,720	171.3	20.8	0.21	15.4	219,330	180.4	22.7	0.21	17.6
CW072A9K9	2200	239,480	168.4	24.7	0.29	20.3	260,555	177.2	26.9	0.29	21.2



Mortex Products Inc.
 501 Terminal Road
 Fort Worth, TX 76106
 800-444-6354
 www.mortx.com