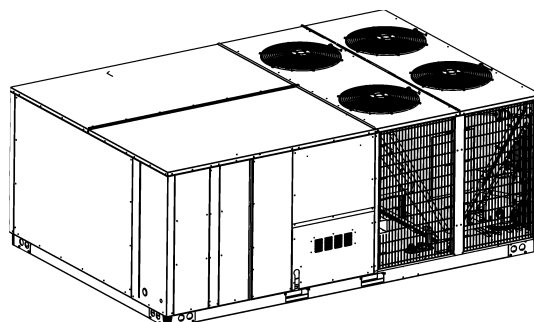


DSG240 Direct Drive 20 Ton Gas Unit

DSG2403DH00001SAA
DSG2403DL00001SAA
DSG2403DM00001SAA
DSG2404DH00001SAA
DSG2404DL00001SAA
DSG2404DM00001SAA
DSG2407DH00001SAA
DSG2407DL00001SAA
DSG2407DM00001SAA



This manual is to be used by qualified technicians only.

Important Information

Index

Functional Parts List	3
Illustration and Parts	4 - 19

Views shown are for parts illustrations only, not servicing procedures.

Text Codes:

AR - As Required

NA - Not Available

NS - Not Shown

00000000 - See Note

QTY - Quantity Example (QTY 3) (If Quantity not shown, Quantity = 1)

M - Model Example (M1) (If M Code not shown, then part is used on all Models)

Expanded Model Nomenclature:

Example M1 - Model#1 M2 - Model#2 M3 - Model#3

Daikin Comfort Technologies Manufacturing , L.P. is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

Warranty service must be performed by an authorized technician, using authorized factory parts. If service is required after the warranty expires, Daikin Comfort Technologies Manufacturing , L.P. also recommends contacting an authorized technician and using authorized factory parts.

Daikin Comfort Technologies Manufacturing , L.P. reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.

For assistance within the U.S.A. contact:
Equipment Support
Daikin Comfort Technologies Manufacturing , L.P.
19001 Kermier Road
Waller, Texas 77484
855-770-5678-Telephone
713-863-2382-Facsimile

For assistance outside the U.S.A. contact:
International Division
Daikin Comfort Technologies Manufacturing , L.P.
19001 Kermier Road
Waller, Texas 77484
713-861-2500-Telephone
713-863-2382-Facsimile

Functional Parts

Part

No: Description:

0130M00913	AUXILLARY SWITCH (QTY 2)
0163L00000	BECKETT BURNER (QTY 8)
CAP100000370LA	CAP, 10 MFD/370V/OVAL (QTY 4)
YP105K1TTFCRT	COMPRESSOR (M4, M5, M6)
YP105K1TTF5ERZ	COMPRESSOR (M1, M2, M3)
YP105K1TTFECRT	COMPRESSOR (M7, M8, M9)
0201L00844	COND COIL, MICROCHNL 20MM (QTY 2)
CONT2P030024D	CONT, 2 POLE, 30 AMP, 24VAC
CONT3P030024D	CONT, 3 POLE, 30 AMP, 24VAC (QTY 2)
CONT3P030024D	CONT, 3 POLE, 30 AMP, 24VAC (M4, M5, M6, M7, M8, M9)
CONT3P050024D	CONT, 3 POLE, 50 AMP 24VAC (M1, M2, M3)
0130L00275	CRANK CASE HEATER, 70W, 575V (M7, M8, M9)
0130L00273	CRANK CASE HEATER-70W 240V (M1, M2, M3)
0130L00274	CRANK CASE HEATER-70W, 480V (M4, M5, M6)
0130M00178	DPDT RELAY 24VAC (QTY 3)
0202L00726	EVAPORATOR COIL ASSEMBLY
0251L00193	EXPANSION VALVE ASSEMBLY C1
0251L00194	EXPANSION VALVE ASSEMBLY C2
0130F00010	FLAME SENSOR
0130L00251	IGNITOR
20162904	LIMIT, PRIMARY (QTY 2)
0130M00063	LIMIT, PRIMARY, 140, GOLD
10123532	LIMIT-RESET MAN-GRAY (M2, M5, M8)
10123529	LIMIT-RESET MAN-GREEN (M1, M3, M4, M6, M7, M9)
0131L00122	MOTOR, BLOWER (M1, M2, M3)
0131L00124	MOTOR, BLOWER (M4, M5, M6)
0131L00125	MOTOR, BLOWER (M7, M8, M9)
0131M00925	Nidec Motor, 1/2 HP (M1, M2, M3)
0131M00930	Nidec Motor, 1/2 HP (M7, M8, M9)
0131M00926	Nidec Motor, 1/2 HP (M4, M5, M6)
PCBCM301V0001	PCB, CONTROL, AIR HANDLER
PCBAG123	PCB, IGNITION, DSI, INTEG
11112501	PRESSURE SWITCH
0131L00720	PROGRAM MOTOR CONTROLLER (M3, M6, M9)
0131L00721	PROGRAM MOTOR CONTROLLER (M1, M4, M7)
0131L00719	PROGRAM MOTOR CONTROLLER (M2, M5, M8)
10135604	RELAY (QTY 3)
SER2A08012	SENSATA, R32 SENSOR
0130M00732	SWITCH LOW PRESSURE (QTY 2)
0130M00730	SWITCH, HIGH PRESSURE (QTY 2)
0130L00319	TRANSFORMER (M1, M2, M3)
0130L00320	TRANSFORMER (M7, M8, M9)
0130M00860	TRANSFORMER (M7, M8, M9)
0130M00862	TRANSFORMER (M4, M5, M6)
0130L00318	TRANSFORMER (M4, M5, M6)
0151M00015	VALVE, GAS (HW) VR83

SPECIAL PARTS

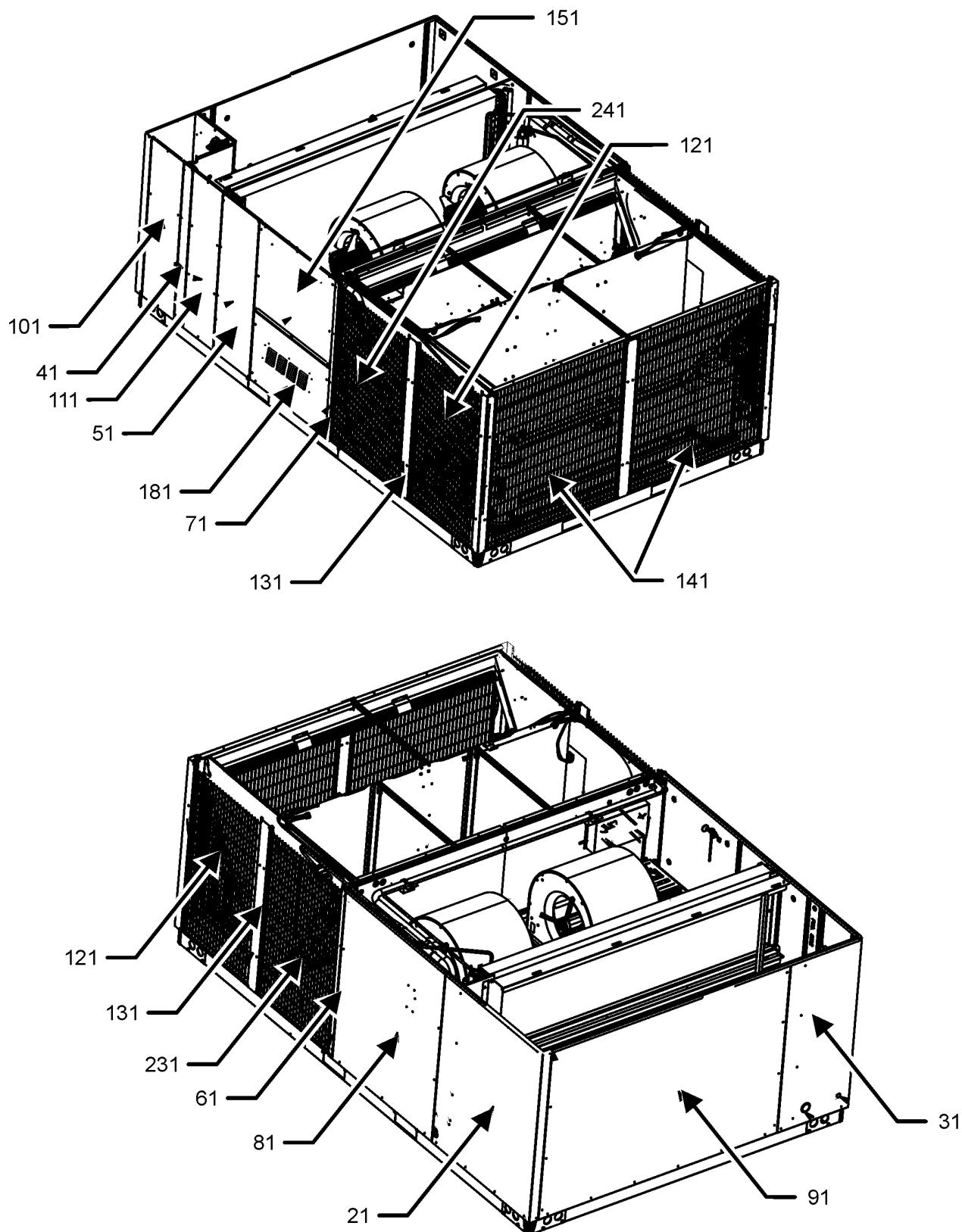
RP-EH[S,X]*L*	ACCESSORY RP MANUAL
RP-FIOPL*	ACCESSORY RP MANUAL

Expanded Model Nomenclature

M1 - DSG2403DH00001SAA
M2 - DSG2403DL00001SAA
M3 - DSG2403DM00001SAA
M4 - DSG2404DH00001SAA
M5 - DSG2404DL00001SAA
M6 - DSG2404DM00001SAA
M7 - DSG2407DH00001SAA
M8 - DSG2407DL00001SAA
M9 - DSG2407DM00001SAA

Cabinet Assembly

CABINET ASSEMBLY



CABINET ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

Cabinet Assembly

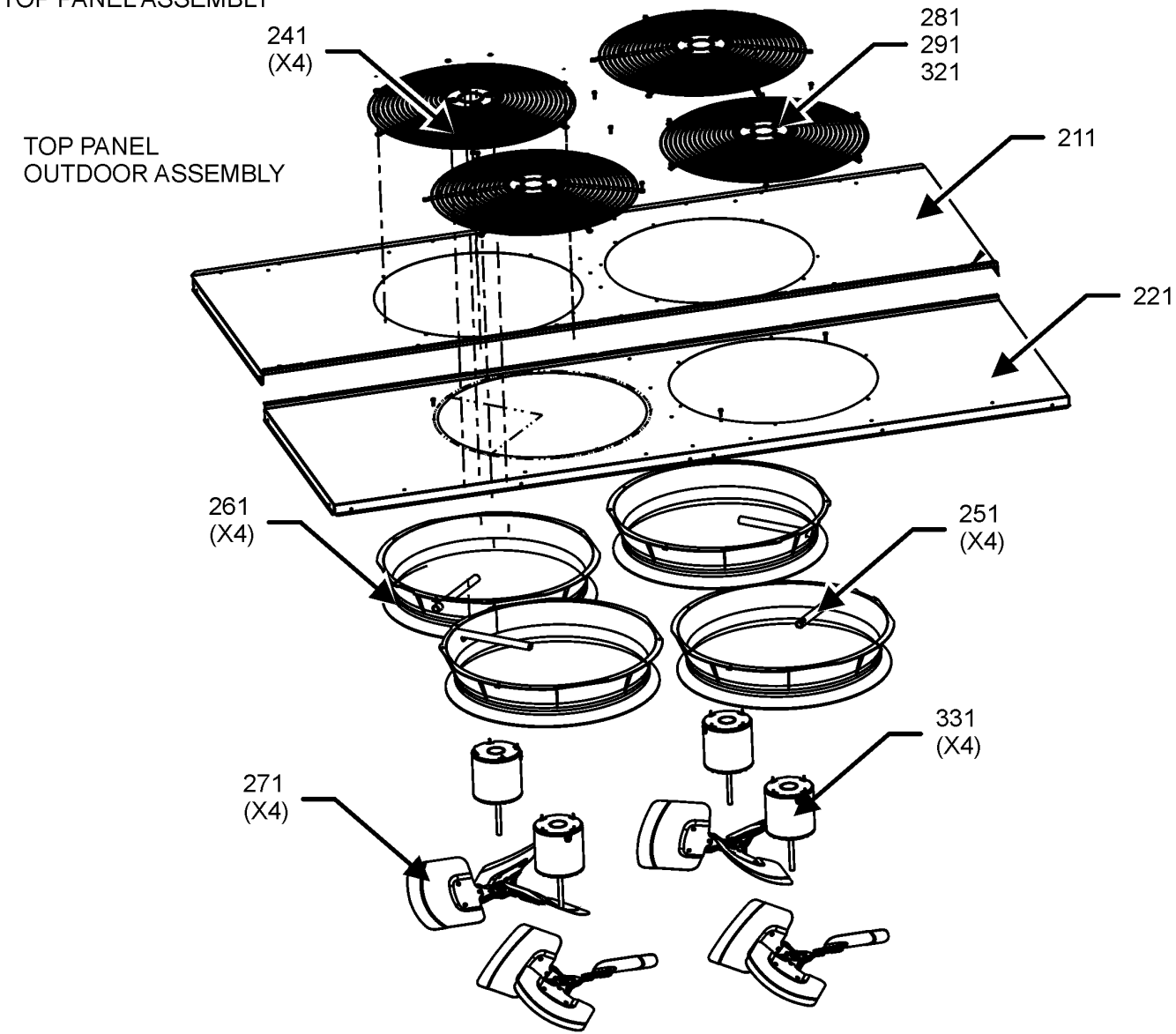
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
21	0121L00681SB		PAINTED EVAP PANEL
31	0121L05536SB		PAINTED, PANEL CONTROL CORNER
41	0121L05535SB		PAINTED, POST CONTRO/FILTER
51	0121L05534SB		PAINTED, DOOR POST EVAP BLOWER
61	0121L04679SB		PAINTED POST PARTITION EVAP
71	0121L04681SB		PAINTED POST PARTITION GAS
81	0121L00685SB		PNT DOOR BLWR EVAP SIDE
91	0121L00688SB		PNT ACCESSORY PANEL
101	0121L05533SB		PAINTED, DOOR, CONTROL
111	0121L05532SB		PAINTED, DOOR, FILTER
121	0152L00022		GRILL CONDENSER (QTY 2)
131	0121L01144SB		POST COND PANEL PNT (QTY 2)
141	0152L00019		GRILL CONDENSER (QTY 2)
151	0121L05352SB		PAINTED, DOOR-BLOWER, GAS SIDE
181	0121L00562SB		PNT, HOOD-COMBUSTION AIR
231	0152L00023		GRILL CONDENSER
241	0152L00024		GRILLE-CONDENSOR, GAS FLUE
NS	0160L00136		AIR FILTER (QTY 8)
NS	0270L02482		ASSY., FILTER RACK
NS	B1392156		PLASTIC CAP 2 1/8
NS	0163M00097		SCREW WASHED (QTY 104)

Expanded Model Nomenclature

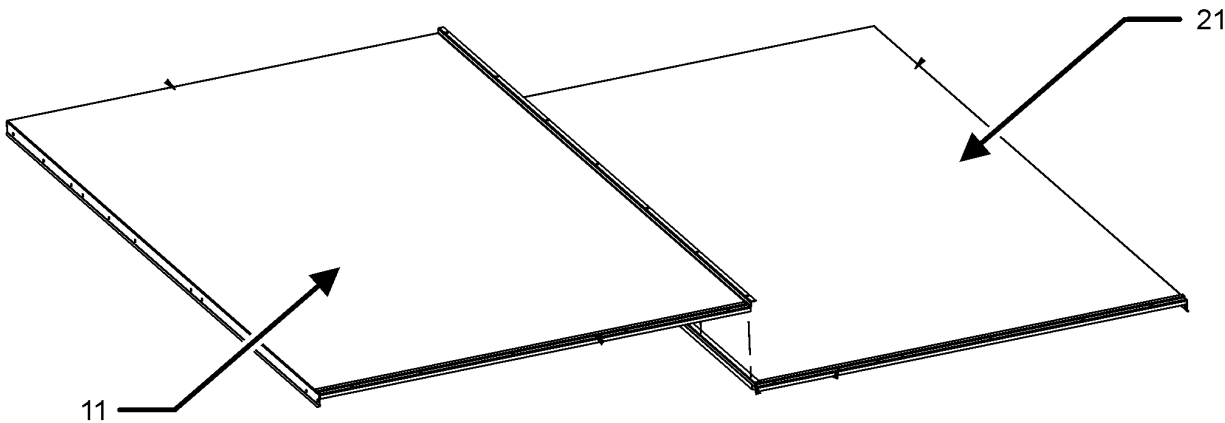
M1 - DSG2403DH00001SAA
M2 - DSG2403DL00001SAA
M3 - DSG2403DM00001SAA
M4 - DSG2404DH00001SAA
M5 - DSG2404DL00001SAA
M6 - DSG2404DM00001SAA
M7 - DSG2407DH00001SAA
M8 - DSG2407DL00001SAA
M9 - DSG2407DM00001SAA

Top Panel Assembly

TOP PANEL ASSEMBLY



TOP PANEL INDOOR ASSEMBLY



TOP PANEL ASSEMBLIES MAY DIFFER FROM WHAT IS SHOWN

Top Panel Assembly

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

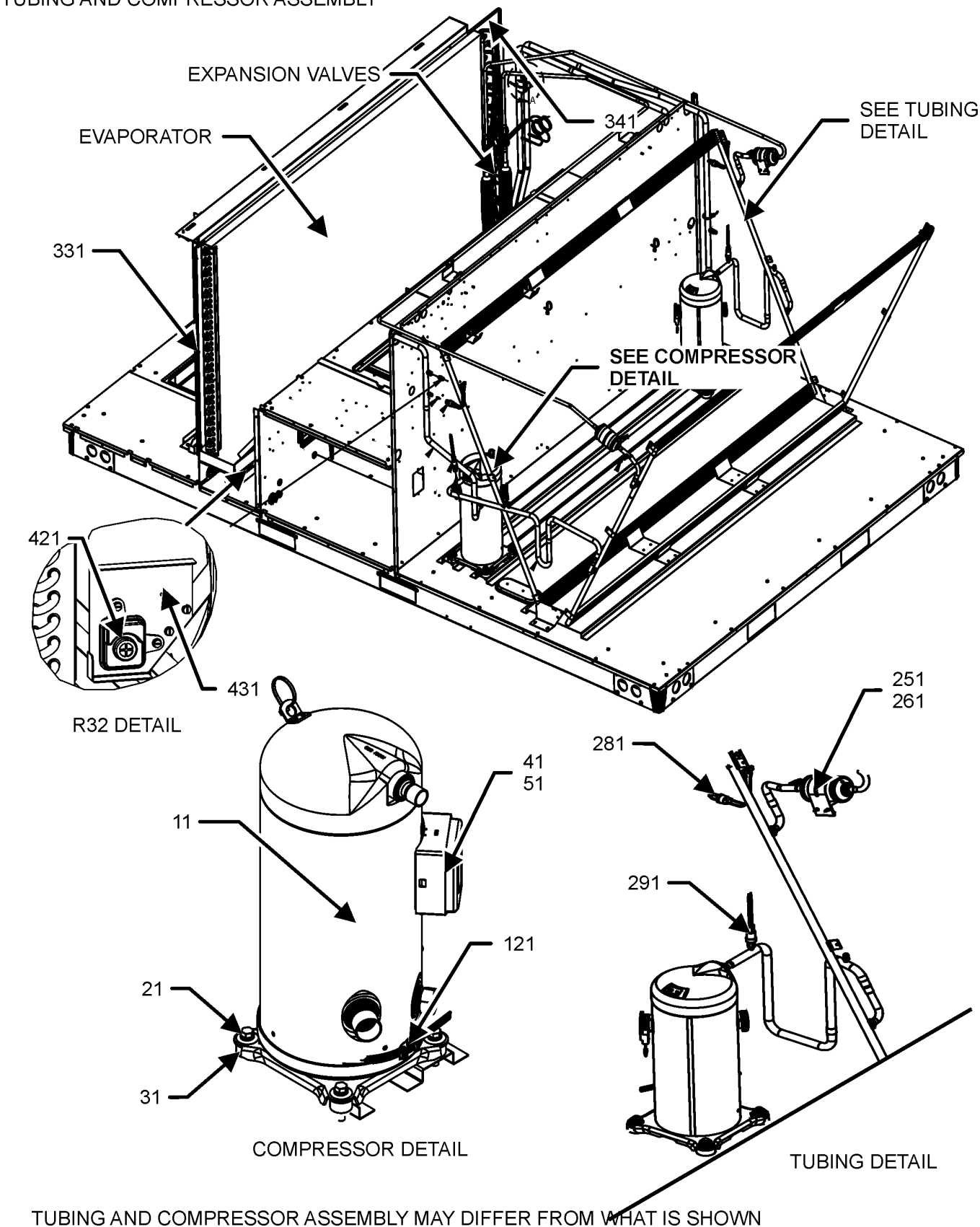
11	0121L00693SB	TOP CONTROL SIDE PNT
21	0121L00694SB	TOP PANEL ASSY PNT
211	0121L04969SB	PAINTED TOP FAN FAN MOUNT
221	0121L04971SB	PAINTED, TOP PANEL, FAN MOUNT
241	0152G00000	FAN GRILLE, RAISED (QTY 4)
251	0161R00124	CONDUIT (QTY 4)
261	0161R00048	MOLDED RING VENTURI 22 (QTY 4)
271	0150M00065	FAN BLADE, 22" (QTY 4)
281	0163M00006P	NUT ACORN 5/16 HEX BLACK (QTY 16)
291	0163M00005P	WASHER BLACK .50 OD .218ID (QTY 16)
321	M0272803	WASHER LOCK (QTY 8)
331	0131M00925	Nidec Motor, 1/2 HP (M1, M2, M3)
331	0131M00926	Nidec Motor, 1/2 HP (M4, M5, M6)
331	0131M00930	Nidec Motor, 1/2 HP (M7, M8, M9)

Expanded Model Nomenclature

M1 - DSG2403DH00001SAA
M2 - DSG2403DL00001SAA
M3 - DSG2403DM00001SAA
M4 - DSG2404DH00001SAA
M5 - DSG2404DL00001SAA
M6 - DSG2404DM00001SAA
M7 - DSG2407DH00001SAA
M8 - DSG2407DL00001SAA
M9 - DSG2407DM00001SAA

Tubing and Compressor Assembly

TUBING AND COMPRESSOR ASSEMBLY



Tubing and Compressor Assembly

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
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Image 1:

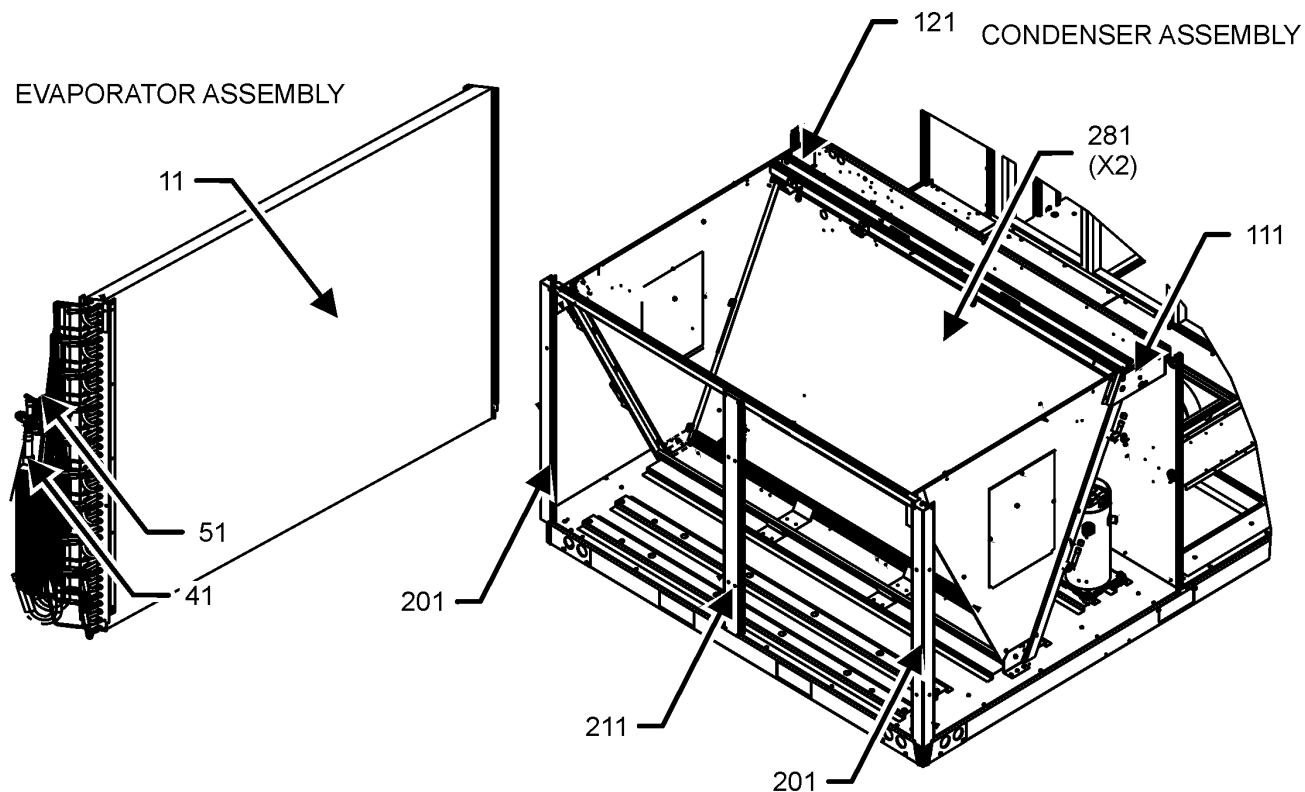
11	YP105K1TTF5ERZ	COMPRESSOR (M1, M2, M3)
11	YP105K1TTFDCRT	COMPRESSOR (M4, M5, M6)
11	YP105K1TTFECRT	COMPRESSOR (M7, M8, M9)
21	0164M00018	GROMMET COMPRESSOR (QTY 8)
31	B1393740	COMP BOLT SLEEVE (QTY 8)
41	0159L00166	HARNESS, COMPRESSOR SCROLL (M1, M2, M3)
41	0159L00147	HARNESS, SCROLL COMPRESSOR (M4, M5, M6, M7, M8, M9)
51	0159L00167	HARNESS, COMPRESSOR SCROLL (M1, M2, M3)
51	0159L00148	HARNESS, SCROLL COMPRESSOR (M4, M5, M6, M7, M8, M9)
121	0130L00275	CRANK CASE HEATER, 70W, 575V (M7, M8, M9)
121	0130L00273	CRANK CASE HEATER-70W 240V (M1, M2, M3)
121	0130L00274	CRANK CASE HEATER-70W, 480V (M4, M5, M6)
251	0162M00469	FILTER DRIER
261	0162M00469	FILTER DRIER
281	0130M00732	SWITCH LOW PRESSURE (QTY 2)
291	0130M00730	SWITCH, HIGH PRESSURE (QTY 2)
331	0121L04512	BLOCK OFF EVAPORATOR
341	0121L05428	BLOCK OFF - EVAPORATOR
421	SER2A08012	SENSATA, R32 SENSOR
431	0121L05665	BRKT, SENSOR MOUNT
NS	B1373315	ACCESS FITTING (QTY 4)
NS	0141L00029	BOARD FORK (QTY 2)
NS	0121L00724	BRACKET FORK BOARD (QTY 4)
NS	0151M00104	VALVE CORE (QTY 8)

Expanded Model Nomenclature

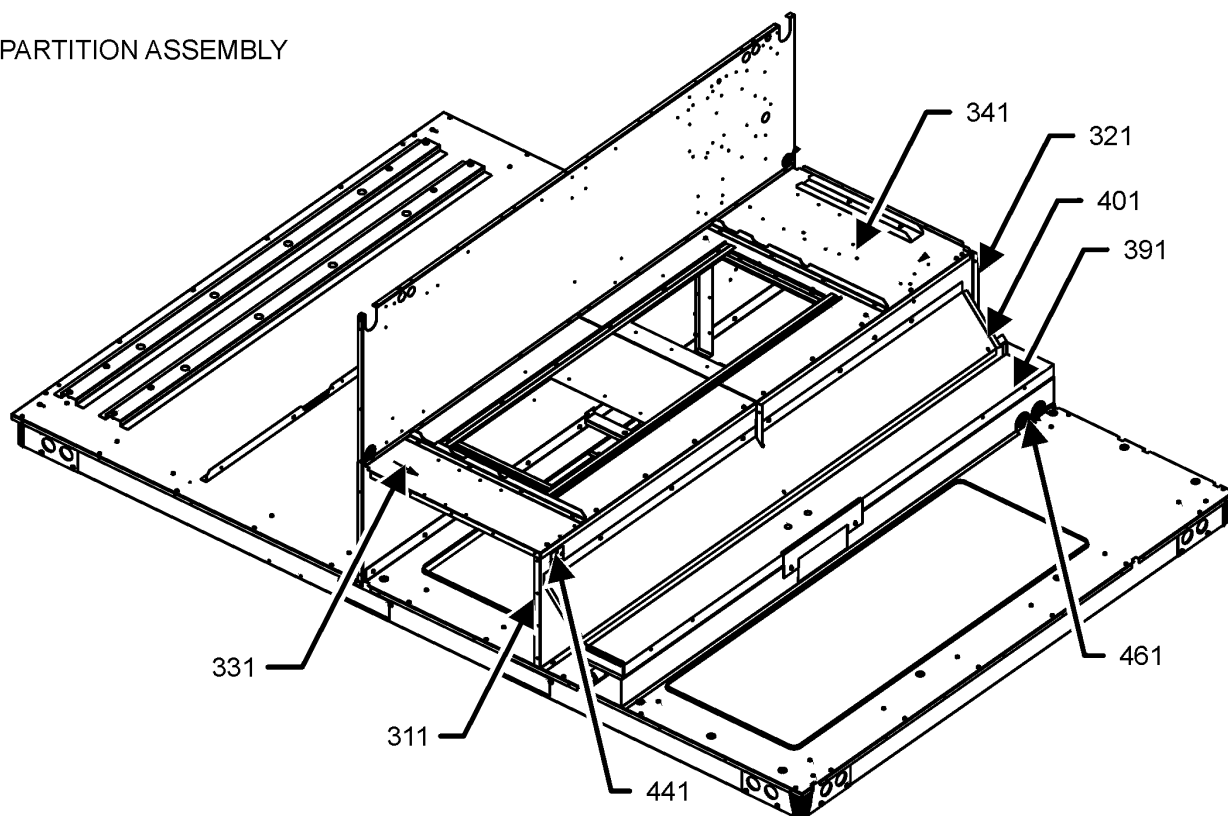
M1 - DSG2403DH00001SAA
M2 - DSG2403DL00001SAA
M3 - DSG2403DM00001SAA
M4 - DSG2404DH00001SAA
M5 - DSG2404DL00001SAA
M6 - DSG2404DM00001SAA
M7 - DSG2407DH00001SAA
M8 - DSG2407DL00001SAA
M9 - DSG2407DM00001SAA

Partition,Evaporator,Condenser Assembly

PARTITION, EVAPORATOR, CONDENSER ASSEMBLY



PARTITION ASSEMBLY



PARTITION, EVAPORATOR, CONDENSER ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

Partition,Evaporator,Condenser Assembly

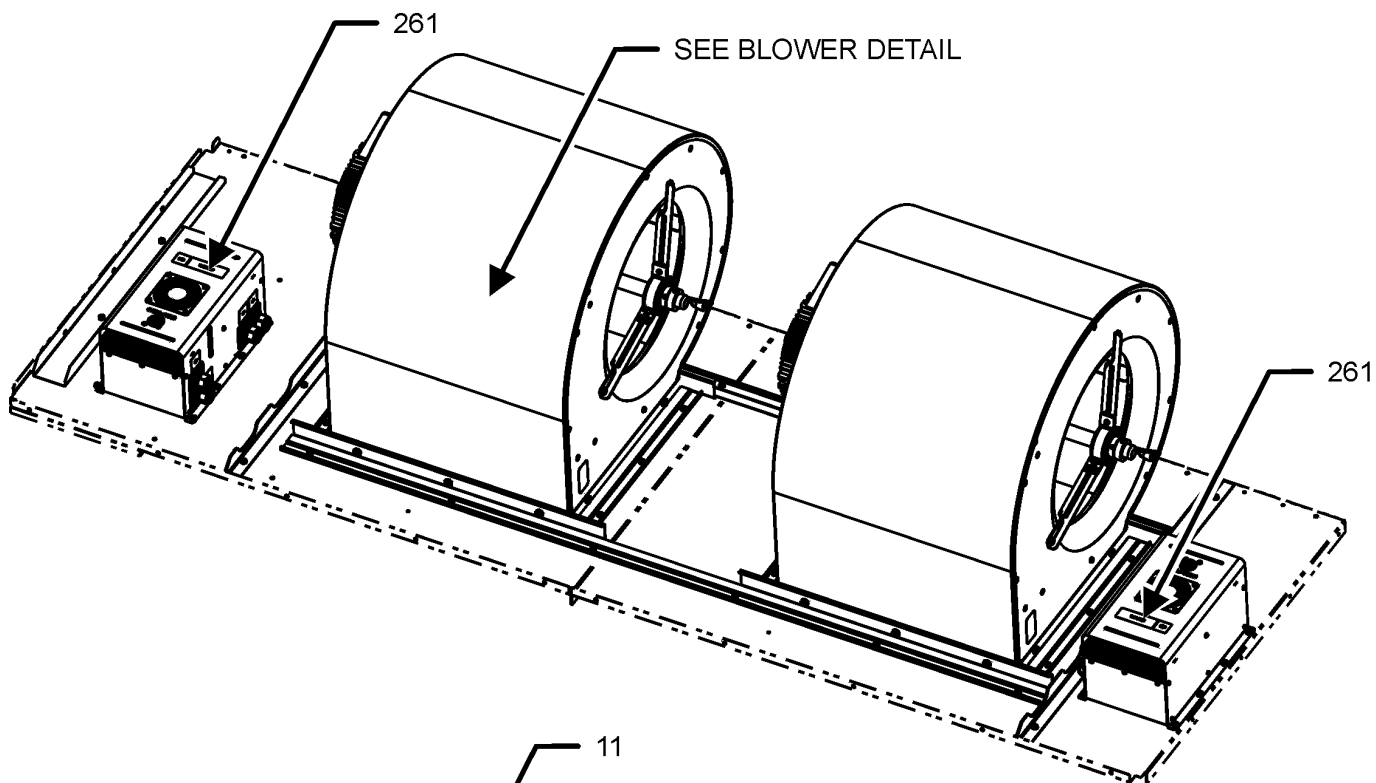
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
11	0202L00726		EVAPORATOR COIL ASSEMBLY
41	0251L00193		EXPANSION VALVE ASSEMBLY C1
51	0251L00194		EXPANSION VALVE ASSEMBLY C2
111	0121L04529		BRACKET - CONDENSOR END
121	0121L04635		BRACKET - CONDENSOR END
201	0121L04608SB		PAINTED CORNER POST (QTY 2)
211	0121L01144SB		POST COND PANEL PNT (QTY 2)
281	0201L00844		COND COIL, MICROCHNL 20MM (QTY 2)
311	0121L05236		DECK, SIDE DUCT END
321	0121L05351		DECK-SIDE, HEAT END
331	0121L05346		DECK, BLOWER EVAP SIDE
341	0121L05345		DECK, CONTROL BOX END
391	0270L02431DG		PAINTED DRAIN PAN WELDMENT
401	0121L05431		SHIELD, BLOWOFF
441	0121L00321		COVER SMOKE DETECTOR
461	0164G00004		GROMMET HORSESHOE 1.75 (QTY 3)
NS	0121L00552		ANGLE-HEAT EXCHANGER, LH SIDE
NS	0121L00553		ANGLE-HEAT EXCHANGER, LOWER (QTY 2)
NS	0121L00551		ANGLE-HEAT EXCHANGER, RH SIDE
NS	0163L00045		FITTING DRAIN EXT

Expanded Model Nomenclature

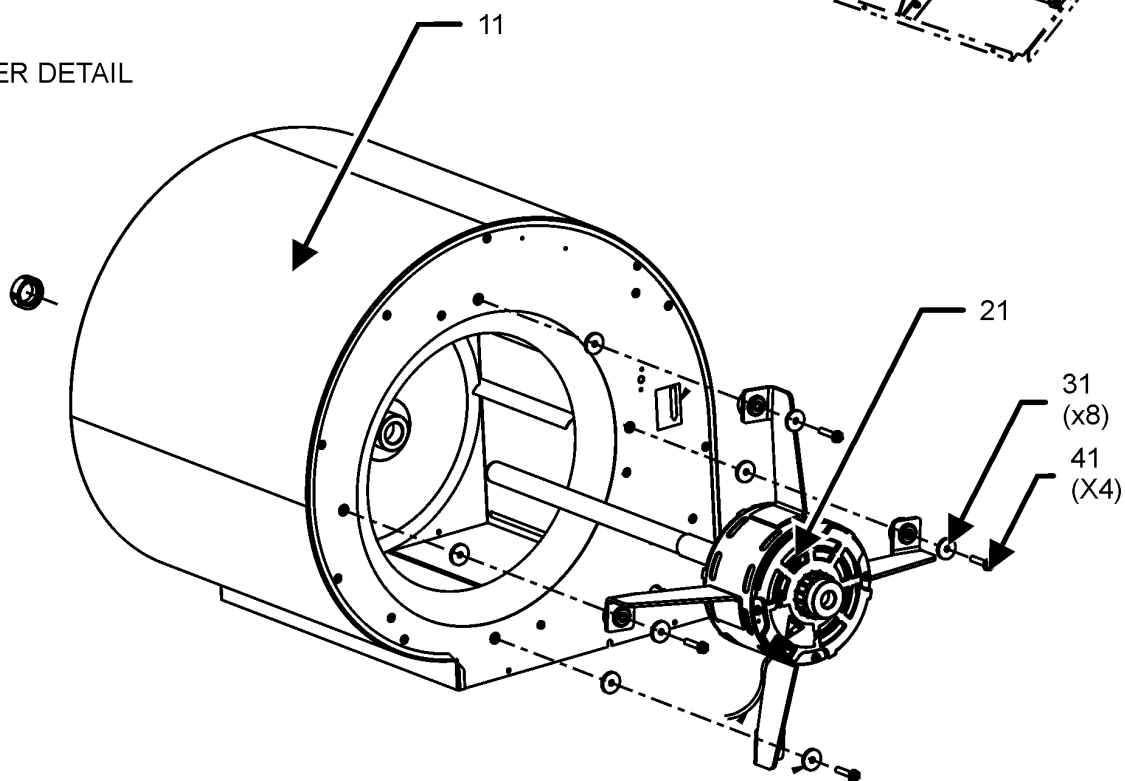
M1 - DSG2403DH00001SAA
M2 - DSG2403DL00001SAA
M3 - DSG2403DM00001SAA
M4 - DSG2404DH00001SAA
M5 - DSG2404DL00001SAA
M6 - DSG2404DM00001SAA
M7 - DSG2407DH00001SAA
M8 - DSG2407DL00001SAA
M9 - DSG2407DM00001SAA

Blower Assembly

BLOWER ASSEMBLY



BLOWER DETAIL



BLOWER ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

Blower Assembly

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
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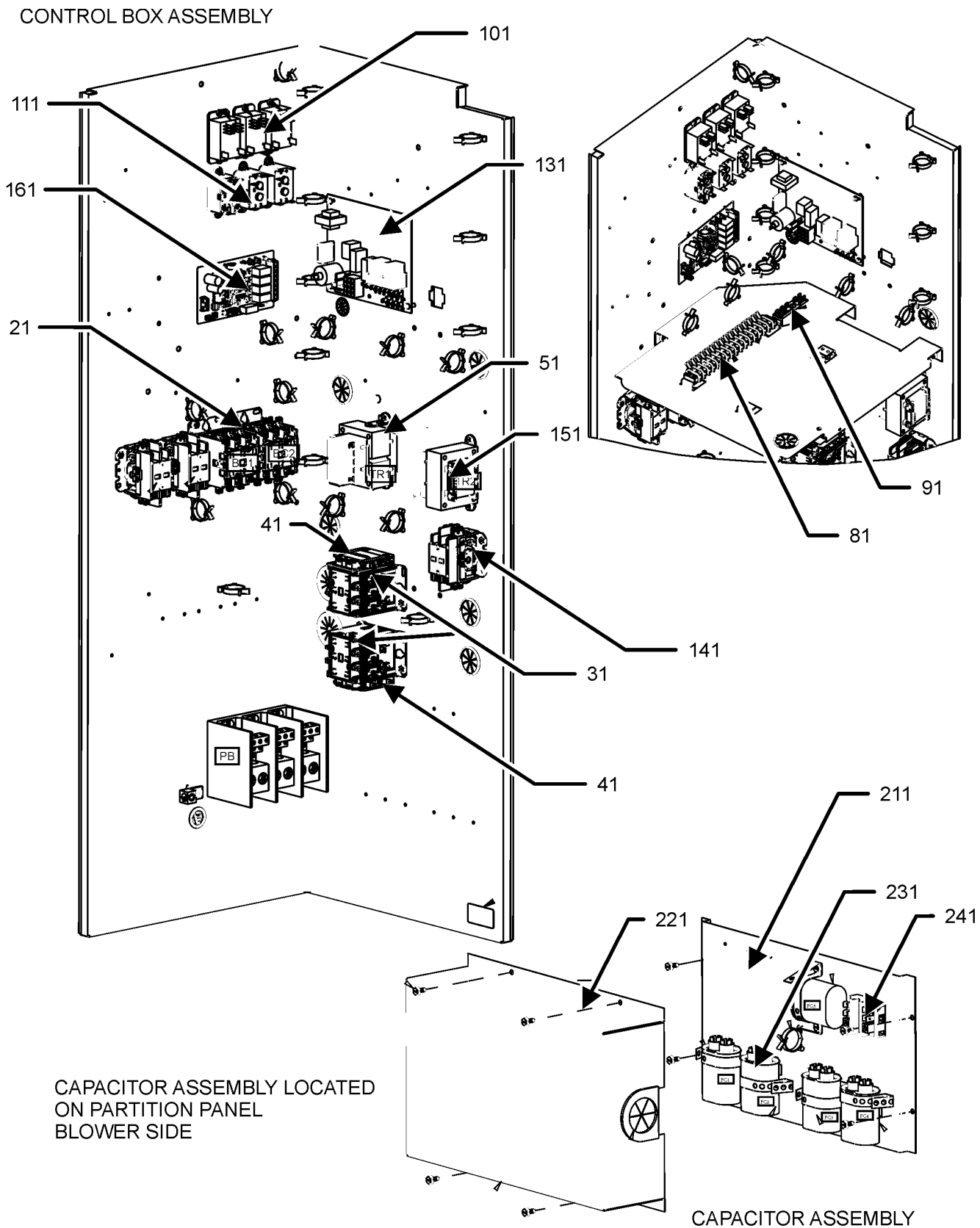
Image 1:

11	0271L00385	BLOWER ASSEMBLY (QTY 2)
21	0131L00122	MOTOR, BLOWER (M1, M2, M3)
21	0131L00124	MOTOR, BLOWER (M4, M5, M6)
21	0131L00125	MOTOR, BLOWER (M7, M8, M9)
31	B1392918	WASHER FLAT 1/4 IDX1OD (QTY 16)
41	M0250565	SCREW TC 1.25 (QTY 8)
261	0131L00719	PROGRAM MOTOR CONTROLLER (M2, M5, M8)
261	0131L00720	PROGRAM MOTOR CONTROLLER (M3, M6, M9)
261	0131L00721	PROGRAM MOTOR CONTROLLER (M1, M4, M7)
NS	20162904	LIMIT, PRIMARY (QTY 2)

Expanded Model Nomenclature

M1 - DSG2403DH00001SAA
M2 - DSG2403DL00001SAA
M3 - DSG2403DM00001SAA
M4 - DSG2404DH00001SAA
M5 - DSG2404DL00001SAA
M6 - DSG2404DM00001SAA
M7 - DSG2407DH00001SAA
M8 - DSG2407DL00001SAA
M9 - DSG2407DM00001SAA

Control Box Assembly



CONTROL BOX ASSEMBLY MAY DIFFER FROM WHAT IS SHOWN

Control Box Assembly

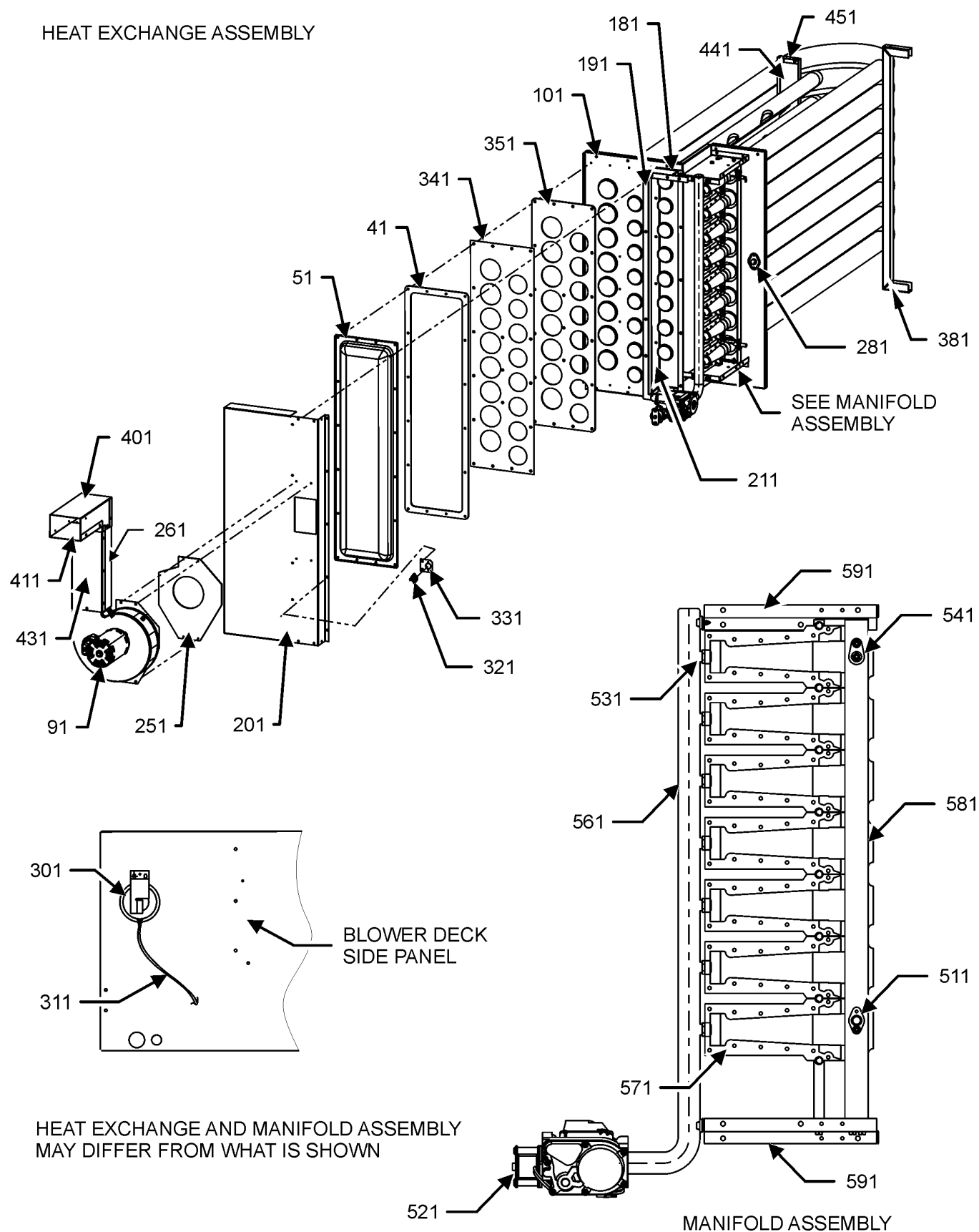
Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:			
21	CONT3P030024D		CONT, 3 POLE, 30 AMP, 24VAC (QTY 2)
31	CONT3P030024D		CONT, 3 POLE, 30 AMP, 24VAC (M4, M5, M6, M7, M8, M9)
31	CONT3P050024D		CONT, 3 POLE, 50 AMP 24VAC (M1, M2, M3)
41	0130M00913		AUXILLARY SWITCH (QTY 2)
51	0130L00318		TRANSFORMER (M4, M5, M6)
51	0130L00319		TRANSFORMER (M1, M2, M3)
51	0130L00320		TRANSFORMER (M7, M8, M9)
NS	0130L00217		POWER BLOCK
81	0130M00038		TERMINAL BOARD
91	802007090		TERM BOARD
101	0130M00178		DPDT RELAY 24VAC (QTY 3)
111	10135604		RELAY (QTY 3)
131	PCBAG123		PCB, IGNITION, DSI, INTEG
141	CONT2P030024D		CONT, 2 POLE, 30 AMP, 24VAC
151	0130M00860		TRANSFORMER (M7, M8, M9)
151	0130M00862		TRANSFORMER (M4, M5, M6)
161	PCBCM301V0001		PCB, CONTROL, AIR HANDLER
211	0121L04684		PLATE CAPACITOR
221	0121L04920		COVER CAPACITOR
231	CAP100000370LA		CAP, 10 MFD/370V/OVAL (QTY 4)
241	B1368250		TERMINAL BLOCK A-10KW
NS	0164G00004		GROMMET-HORSESHOE 1.75 (QTY 3)
NS	0130L00005		GROUND-LUG
NS	20520901		STRAP-CAPACITOR (QTY 4)
NS	B1392104		UNIVERSAL BUSHING UN 875 (QTY 2)

Expanded Model Nomenclature

M1 - DSG2403DH00001SAA
M2 - DSG2403DL00001SAA
M3 - DSG2403DM00001SAA
M4 - DSG2404DH00001SAA
M5 - DSG2404DL00001SAA
M6 - DSG2404DM00001SAA
M7 - DSG2407DH00001SAA
M8 - DSG2407DL00001SAA
M9 - DSG2407DM00001SAA

Heat Exchange

HEAT EXCHANGE ASSEMBLY



Heat Exchange

Ref. Part No: No:	Description:	Ref. Part No: No:	Description:
Image 1:		Expanded Model Nomenclature	
41	0154L00025	GASKET-COVER REAR 8	M1 - DSG2403DH00001SAA
51	0121L00545	COVER-REAR 8 TUBE	M2 - DSG2403DL00001SAA
91	0131L00014	MOTOR-ID VENT	M3 - DSG2403DM00001SAA
101	0270L02384	ASSY., PARTITION TUBE 6B (M2, M5, M8)	M4 - DSG2404DH00001SAA
101	0270L00186	ASSY., PARTITION TUBE 8B (M1, M3, M4, M6, M7, M9)	M5 - DSG2404DL00001SAA
181	0154L00026	INNER COLLECTOR BOX GASKET	M6 - DSG2404DM00001SAA
191	0154L00027	OUTER COLLECTOR BOX GASKET	M7 - DSG2407DH00001SAA
201	0121L05122	COVER-COLLECTOR BOX 8 (M1, M4, M7)	M8 - DSG2407DL00001SAA
201	0121L05124	COVER-COLLECTOR BOX 8 (M2, M5, M8)	M9 - DSG2407DM00001SAA
201	0121L05125	COVER-COLLECTOR BOX 8 (M3, M6, M9)	
211	0121L00546	CHANNEL-COLLECTOR BOX 8	
251	0154L00029	ID BLOWER GASKET	
261	0121L04774	FLUE, WRAPPER	
281	0130M00063	LIMIT, PRIMARY, 140, GOLD	
301	11112501	PRESSURE SWITCH	
311	A3468601	SILICONE TUBING 3/16 IDX 1/4 (QTY 2)	
321	10123532	LIMIT-RESET MAN-GRAY (M2, M5, M8)	
321	10123529	LIMIT-RESET MAN-GREEN (M1, M3, M4, M6, M7, M9)	
331	0121L04785	BRACKET, FLAME ROLLOUT (M2, M5, M8)	
331	0121L00053	BRACKET-FLAME ROLLOUT (M1, M3, M4, M6, M7, M9)	
341	0121L00548	PLATE-TUBE PANEL 8	
351	0154L00028	GASKET-TUBE PANEL 8	
381	0121L00930	SUPPORT-HEAT TUBES 2.25	
401	0121L02100	FLUE WRAPPER EXIT	
411	0121L00671	FLUE COVER EXIT	
431	0121L04775	FLUE, COVER	
441	0121L00808	SUPPORT-HEAT TUBES 2.25	
451	0121L00823	BRACKET-TUBE SUPPORT (QTY 2)	
511	0130L00251	IGNITOR	
521	0151M00015	VALVE, GAS (HW) VR83	
531	0163L00014	ORIFICE (M1, M3, M4, M6, M7, M9)	
531	0163L00015	ORIFICE (M2, M5, M8)	
541	0130F00010	FLAME SENSOR	
561	0163L00286	MANIFOLD-6 BURNER (M2, M5, M8)	
561	0163L00033	MANIFOLD-GAS 8 BURNER (M1, M3, M4, M6, M7, M9)	
571	0163L00000	BECKETT BURNER (QTY 8)	
581	0121L02691	BRACKET, BURNER, 6 (M2, M5, M8)	
581	0121L00635	BRACKET-8 BURNERS (M1, M3, M4, M6, M7, M9)	
591	0121G00268	BRACKET-BURNER TOP/BOT (QTY 2)	
NS	B1910013	1 1/8 GROMMET	
NS	0121L00697	BRACKET GAS VALVE PIPE	
NS	0163L00040	FLUE SCREEN	

ACCESSORY PARTS LIST

NOTE: NOT ALL OPTIONS AVAILABLE FOR ALL PRODUCTS

FOR ACCESSORY PARTS SEE THE FOLLOWING PART MANUAL

RP-FIOPL*
RP-EH[X,S]*L*

Accessory Parts

Ref. Part

No: No:

Description:

Ref. Part

No: No:

Description:

Image 1:

NS RP-EH[S,X]*L* ACCESSORY RP MANUAL

NS RP-FIOPL* ACCESSORY RP MANUAL

Expanded Model Nomenclature

M1 - DSG2403DH00001SAA

M2 - DSG2403DL00001SAA

M3 - DSG2403DM00001SAA

M4 - DSG2404DH00001SAA

M5 - DSG2404DL00001SAA

M6 - DSG2404DM00001SAA

M7 - DSG2407DH00001SAA

M8 - DSG2407DL00001SAA

M9 - DSG2407DM00001SAA