

HFO3 Began Production Late 2023

Control Panel Components

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A2117G09	1	CONTROL, THERMOSTAT ELECTRONIC <i>Ice Bin Thermostat</i>
12A2117G0901	1	CONTROL, THERMOSTAT ELECTRONIC PROBE ONLY
12A2117H04		CNTRL, PSI SWITCH, OPEN ON HI,
12A2117J09	2	TRANSDUCER, 0-500 PSI, 12 TO 33 VDC EXCITATION, 0 TO 10 VDC OUT
12A7500E159	1	ILLUMINATED PUSH BUTTON (MUSHR
12A7500E160	1	LIGHT MODULE, LED, 24V AC/DC,
12A7502E09		FUSE BLOCK, TB, AB#1492-WFB425
12A7502E10		FUSE BLOCK, TB, AB#1492-WFB424
12A7502E21	1	FUSE HOLDER, 600V-30 A, 2-POL
12A7504E13	2	FUSE (GOULD SHAWMUT #ATDR6)
12A7504E23	18	FUSE BUSSMAN GMA-2-R, 2 AMP FA
12A7505E21	2	CONNECTOR KIT FOR 140MT-C / CO
12A7505E55	2	SPACER ADAPTER, FOR 140MT STAR
12A7516E23	2	CONTACTOR, 9A, 3 POLE, W/NO AUX <i>Cutter Motor and Water Pump Contactors also requires Motor Starters</i>
12A7518E30	2	AUX. CONTACT, 10A, 1 NO/1 NC, SIDE MOUNT AB #100-SA11
12A7518E33UL	2	AUX. CONTACT, 6A, 1 NO TRIP, 1 NC TRIP, FRONT MOUNT, AB #140MT-
12A7516E33	1	CONTACTOR, 85A, 3 POLE, 208/240V, 60HZ, 200/220V, 50HZ COIL <i>For 208/230volt Power 50/60Hz requires AUX listed below</i>
12A7518E30	1	AUX. CONTACT, 10A, 1 NO/1 NC, SIDE MOUNT AB #100-SA11
12A7518E31	1	AUX. CONTACT, 10A, 2 NO, SIDE MOUNT AB #100-SA20
12A7530E54UL	1	MANUAL MOTOR STARTER, 1.6-2.5A <i>For Cutter Motor 208/230 Volt Operation</i>
12A7530E56UL	1	MANUAL MOTOR STARTER, 4.0-6.3A <i>For Water Pump 208/230 Volt Operation</i>
12A7515E22	1	CIRCUIT BREAKER, 6A, 2 POLE, 4 <i>Supplementary for 400/460/575 50/60 Hz Operation</i>
12A7516E29	1	CONTACTOR, 43A, 3 POLE W/1NO AUX <i>For 400/460 Volt Operation requires aux below</i>
12A7518E30	1	AUX. CONTACT, 10A, 1 NO/1 NC, SIDE MOUNT AB #100-SA11
12A7518E31	1	AUX. CONTACT, 10A, 2 NO, SIDE MOUNT AB #100-SA20
12A7530E53UL		MANUAL MOTOR STARTER, 1.0-1.6A <i>For Cutter Motor 400/460 Volt Operation</i>
12A7530E54UL	1	MANUAL MOTOR STARTER, 1.6-2.5A <i>For Water Pump 400/460 Volt Operation</i>

12A7516E29	1	CONTACTOR, 43A, 3 POLE W/1NO AUX
		For 575 Volt Operation requires Aux Listed Below
12A7518E30	1	AUX. CONTACT, 10A, 1 NO/1 NC, SIDE MOUNT AB #100-SA11
12A7518E31	1	AUX. CONTACT, 10A, 2 NO, SIDE MOUNT AB #100-SA20
12A7530E53UL		MANUAL MOTOR STARTER, 1.0-1.6A
		For Cutter Motor 575 Volt Operation
12A7530E54UL	1	MANUAL MOTOR STARTER, 1.6-2.5A
		For Water Pump 575 Volt Operation
12A7516E29	1	CONTACTOR, 43A, 3 POLE W/1NO AUX
		For 400 Volt 50Hz Operation requires Aux Listed Below
12A7518E30	1	AUX. CONTACT, 10A, 1 NO/1 NC, SIDE MOUNT AB #100-SA11
12A7518E31	1	AUX. CONTACT, 10A, 2 NO, SIDE MOUNT AB #100-SA20
12A7530E53UL		MANUAL MOTOR STARTER, 1.0-1.6A
		For Cutter Motor 400Volt 50Hz Volt Operation
12A7530E55UL	1	MANUAL MOTOR STARTER, 2.5-4.0A
		For Water Pump 400Volt 50Hz
12A7516E49	1	CONTACTOR, 116A, 3 POLE, W/1NO/1NC AUX, 100-250V, 50/60HZ
		For 200Volt 50Hz Volt Operation requires aux below
12A7518E30	1	AUX. CONTACT, 10A, 1 NO/1 NC, SIDE MOUNT AB #100-SA11
12A7518E31	1	AUX. CONTACT, 10A, 2 NO, SIDE MOUNT AB #100-SA20
12A7530E54UL		MANUAL MOTOR STARTER, 1.6-2.5A
		For Cutter Motor 200 Volt 50Hz Volt Operation
12A7530E56UL	1	MANUAL MOTOR STARTER, 4.0-6.3A
		For Water Pump 200 Volt 50Hz Volt Operation
12A7505E98	1	LUG KIT, FOR 100-E116 TO E146
12A7518E46	1	AUX. CONTACT, 4A @ 230V, 1 NO/1 NC, SIDE MOUNT AB #100-ES1-11
12A7516E25	1	CONTACTOR, 16A, 3 POLE, W/1NO AUX
		For All Air Cooled HFO5 Ice Machines
12A7505E21	1	CONNECTOR KIT FOR 140MT-C / CO
		For All Air Cooled HFO5 Ice Machines
12A7505E55	1	SPACER ADAPTER, FOR 140MT STAR
		For All Air Cooled HFO5 Ice Machines
12A7530E58UL	1	MANUAL MOTOR STARTER, 10 - 16
		Fan Control Air Cooled for 208/230 50/60Hz
12A7530E57UL	1	MANUAL MOTOR STARTER, 6.3-10.0
		Fan Control Air Cooled for 400/460 50/60Hz
12A7530E56UL	1	MANUAL MOTOR STARTER, 4.0-6.3A
		Fan Control Air Cooled 575V 60Hz

PLC Components

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A7536M64	1	PLC, AB MICRO820, 12 DC INPUTS
12A7536M65	1	POWER SUPPLY, 120/240V IN, 24V
12A7536M67	1	PLUG-IN MOD, 4-PT RELAY OUTPUT
12A7536M69	1	PLUG-IN MOD, 4 CH UNIV ANALOG
12A7536M72	1	KEB C6 HMI MODEL, 10.1" WIDE,
12A7536M76	1	2 PORTS DUAL USB MALE TO USB F
12A7536M80	1	CABLE, 5FT LONG, CAT5E PATCH C

Freezer Components

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12B2185N11	78	WATER DISTRIBUTOR, 1" 18GA. TUBES, NON-VENTED
12B2185N21	48	WATER DISTRIBUTOR, DISTRIBUTOR, 1 1/4" 18GA. TUBES, N-VENT
12A2600G01	1	GASKET 13 OD X 11 11/16 ID X 3
12A2145C09	1	COVER, FREEZER, 12" TYPE 304 S
12A2222H1118	8	MILLED STUD, 3/8" X 2 3/4", 18
12A2240H4109	8	NUT, WING, BRASS, 3/8"-16NC
12A2250A102	8	WASHER, CUT #10 SS (3/16")
12A4200L0402	1	VALVES, RELIEF, SET 350#, SUPE
12A4200G0201	1	VALVES, 1/4 MPT X 1/4 SAE (SU
		<i>Freezer Valve, connection for DPS / TXV</i>
12A2742S08		SUPERHOSE ASSY, 60" LONG, 1/4"
12A4200G0301		VALVES, 3/8 MPT X 1/2 SAE FLARE ANGLE, WESTERMEYER
12A4200G0201		VALVES, 1/4 MPT X 1/4 SAE (SU
12A2516H0005		BUSHING PIPE 1/2"MPT X 1/4 FPT
12A2505T0302		ELL, STREET 90 DEG. 1/4" THR
12A4009R01		PLUG, RUBBER 7/8" OD X 2" LG F
12A2215H1116	1	CAP SCREW, 3/8"-16NC X 2 1/4"
		<i>(Use this bolt for 1" tubes)</i>
12A2250A109	2	WASHER, CUT 3/8" SS X 7/8" OD
		<i>(Use this washer for 1" tubes)</i>
12A4009R02		PLUG, RUBBER 1"OD X 2 1/2"LG F
12A2215H1119	1	CAP SCREW, 3/8"-16NC X 3" L
		<i>(Use this bolt for 1-1/4" tubes)</i>
12A2250A12	2	WASHER, FLAT 3/8" X 1" OD (300
		<i>(Use this washer for 1-1/4" tubes)</i>
12A2240A1109	1	NUT, HEX 3/8"-16NC S.S. (FUL

Compressors

Compressors include junction box and overloads. Shipping weight 575lbs.

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A2110A136	1	COMPRESSOR, 3DEHR10ML-TFC-C00,
		<i>208/230V-3P-60HZ, 6-1/2HP with Coresense (Less Oil)</i>

Compressor Accessories

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A2742S04	2	SUPERHOSE ASSY, 24" LONG, 1/4"
12A2742S05	1	SUPERHOSE ASSY, 42" LONG, 1/4"
12A2742S06	1	SUPERHOSE ASSY, 54" LONG, 1/4"
12A4200G0211	1	VALVE, BALL, YELLOW JACKET #93834, 1/4" X 1/4" FLARE
12A7509E12	1	CRANKCASE HEATER, 230V, #518-0
12A2117D02	1	CONTROL, DUAL PRESS, PENN #P72MA-8D, MANUAL HI RESET
12A2051P04	1	BRACKET, #271-51 PENN CONTROL

Cutter Drive Parts

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A2900M0508	1	MOTOR, 1/2HP, US MOTORS #HS89,
12A4030R12	1	GEAR REDUCER, GROVE #GR-WFMQ81
19T3020C01	1	OIL, BOTTLED, 10 OUNCE, TEXACO
19T2615D01	1	DRIVE GEAR, TI-59 W/O HUB SMAL
12A2160H0101	1	HUB FOR DRIVE GEAR (SMALL AND
12A2215F1112	3	CAP SCREW, 1/4"-20NC X 1 1/4"L
		<i>Hub mounting screws</i>
12A2250B107	3	WASHER, LOCK 1/4" SS (300 SE

Cutter Internals

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12B2020R04	1	HE (UHMWPE) CUTTER BEARING
12A3040S02	1	PIN 3/16 X 1/2 , 31/S/187/0500
19T2025B0103	1	BEARING BRACKET MACHINED, 12"
19T2170D01	1	HEC-HES ICE DEFLECTOR DOOR
12A4071S03	1	RIVET, 3/16 X 2 1/4 FLAT HD. T
19T1501S28		HE/P112 GEAR REDUCER MOUNTING PLATE ASSEMBLY
19T2163D0101	1	HE - CUTTER DISC FINAL ASSEMBL
12A3040S01	1	PIN, 1/4 X 1 1/2 SPIROL PIN ME
19T4073R07	1	CUTTER DISC ROLL PIN TOOL
19T2160C0101	1	HE CUTTER ASSEMBLY, INVESTMENT
19T2010A01	1	ADAPTER PLATE FOR HE (1") WI

		Required for the Cutter Fee to Set Plate
12A2226F1108	4	SCREW,FLAT HEAD SS,1/4-20x3/4
19T2090C07	1	ICE CHUTE ASSM FOR HE/P112 SIN

Water Tank & Circulating Water

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A2600G12	1	GASKET 16 1/8" OD X 14" ID X 3
12A4200H0401	1	VALVES, ROBERTS FLOAT #RM214
12A2240L4111	1	NUT, LOCK, 1/2" IPS BRASS (MC
12A4020G01	1	PUMP, GOULD NPE 3ST, 1.5 HP, 2
12A4080S12	1	SEAL KIT, PUMP, KIT# RPKNPE,
12A4181T06	7	TUBING, TYGON S3 B-44-3, 1 1/4 ID X 1 1/2 OD
		<i>Circulating Water (Priced per ft) Add labor charge to cut</i>
12A4181T07	1	TUBING, TYGON S3 B-44-3, 1-1/2 ID X 2 OD
		<i>Pump Suction (Priced per ft) Add labor charge to cut</i>
12A4200A0307LF	1	VALVE, WATER, 3/8", GRANZOW
12A2105C41K	1	ASSEMBLY, COIL, 110/120V GRANZ
12A2105C42K	1	ASSEMBLY, COIL, 230/240V GRANZ
12A2450V11	1	VALVE, BALL, 3/8 OD TUBE X 3/8
12A4181T12	5	TUBING, POLYETHYLENE 3/8OD X .25ID PARKER
12A2450E17	2	ELL, PVC, 90 DEG. 1 1/4" MPT
12A2450A01	1	ADAPTER, MALE, PVC, 3/4" MPT X
12A2100C0201	4	CLAMPS, SS HOSE, 13/16"X1 3/4"
12A4200G0104	1	VALVE, BALL , POLYPROPYLENE, 1
12A2451B01	1	BUSHING, BRASS, 1/4" MPT X 1/8

Water Tank Drain Parts

03TBDRAIN	1	DRAIN ASSEMBLY O3TA AND O3HFO
-----------	---	-------------------------------

Water-Cooled Condenser

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A2115S0109	1	CONDENSER, BITZER STC010XS-XXZ2, 1 1/4 WATER X
12A2600B04	1	GASKET, BITZER, FRONT HEAD FOR
12A2600B05	1	GASKET, BITZER, REAR HEAD FOR
12A4200L0408	1	VALVE, RELIEF, 400#, SUPERIOR
12A3050G0601	2	PIPE NIPPLE, 1 1/4 X 2 GALV SC
12A2449M08	1	NUT, UNION, GALVANIZED, 1 1/4
12A4200G0201	1	VALVES, 1/4 MPT X 1/4 SAE (SU
12A4200E1001	1	VALVES, WATER REGULATING, #V4
12A2055B01	1	BRUSH, ENHANCED TUBE, 5/8" ID

Air-Cooled Condenser

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A2115B07	1	CONDENSER, BOHN # BNHS02A011,
12A2115B074	1	CONDENSER, BOHN # BNHS02A011,
12A2115B08	1	CONDENSER, BOHN # BNHS02A011 (
		High Ambient Condenser for 03TA or B
12A2115B084		CONDENSER, BOHN # BNHS02A011(1
		High Ambient Condenser for 03TA or B
12A2115P10	1	CONDENSER FAN BLADE, 30" BOHN
		For Bohn A/C Condenser
12A2900M0709	1	MOTOR, FAN, 1 1/2HP, 208-23/46
		For Bohn A/C Condenser
12A7516E26	1	CONTACTOR, 23A, 3 POLE W/1NC AUX
		Condenser Fan Contactor (Air-cooled only)
12A2117F05	1	CONTROL, PENN FAN #P70AA-162C, 20-120 DIFFERENTIAL , 50-300
12A4200B0901	1	VALVES, MAGNETIC CHECK, 1 1/8
12A4200A09021	1	VAL, SOL, SPOR #OE35S, 1 1/8" OD,N/O, W DUAL VOLT COIL OMKC-1
		N.O. SOLENOID VALVE FOR A/C CONDENSER
12A2105C25	1	COIL, SPORLAN, OMKC-1, 120/220
12A4199V55	1	REPAIR KIT, VALVES, #KS-0E35

Receiver

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A2625G10	1	GAGE GLASS, 1/2" DIA. X 20" LO
		For Steel Gage Cock Valves
12A2635G07	1	GAGE GLASS GUARD SET, 17 5/8"
12A4199V26	2	REPAIR GROMMET VALVE, PACKIN
12A4200J0405	1	VALVES, UPPER GAGE COCK, HENRY
		Replaced Brass Valve - May 1999
12A4200J0406	1	VALVES, LOWER GAGE COCK, HENR
		Replaced Brass Valve - May 1999
12A3050C0301	2	PIPE NIPPLE, 1/2 X 1 1/2 EX H
12A4200L0408	1	VALVE, RELIEF, 400#, SUPERIOR

Discharge Line & Oil Return

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A3025S12	1	OIL SEPARATOR AC&R #S-5588 1
		Conventional Type, Non-serivceable
12A2451R02	1	ADAPTER, FLARE, WC, 3/8 (F) SA
12A4200G0201	1	VALVES, 1/4 MPT X 1/4 SAE (SU
		Oil Return Stop Valve

12A2742S06	1	SUPERHOSE ASSY, 54" LONG, 1/4"
		Compressor to Oil Separator
12A4200A09041	1	VALVES, SOLENOID, SPORLAN #ME3
		(X-Valve) Air-Cooled Only (Extended Ends)
12A4199V56	1	REPAIR KIT, VALVES, #KS-E35 F
12A2105C33	1	COIL, SPORLAN, MKC-2 DUAL JAU,
12A4179F0207	2	TUBE BEND, 1 1/8" OD X 90 DEG. X 6" X 9" CENTER TO ENDS
12A2975M08	1	MUFFLER, REFRIGERATION RESEAR
12A4200B0703	1	VALVES, BALL CHECK, MECHANIWA
		Liquid Return Line Check Valve (Air-Cooled Only)
12A4200G0903	1	VALVES, BALL TYPE, 1 1/8" ODS
		Discharge Line Stop Valve (Air-Cooled Only)
12A2396A0601	1	ROTALOCK STRAIGHT ADPT. 1 3/8"
12A2396A0501	1	ROTALOCK STRAIGHT ADPT. 1 1/8"
19T2525R05	1	VOGT ROTA-LOCK COUPLING, 1-1/4
12A2600T03	2	ROTA-LOCK PRIMORE TEFLON FIBER SEAL

Liquid Line

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A2195D17	1	DRIER, 1/2" SOLDER CONNECTIONS
12A2140C06	1	CORE, SPORLAN #RCW-42 GOLD LAB
12A4200R0401	1	DISCONTINUED SEE 12A4200R0404

Liquid Feed Line

12A4200A0505	1	VALVES, SOLENOID, SPORLAN #ME1
		Liquid Line Solenoid (A-Valve)
12A4140S09	1	STRAINER, 5/8 OD Y-TYPE HENRY
12A4140S33	1	SEAL, REPLACEMENT, HENRY #2-02
12A4200C0503	1	VALVES, EXPANSION, THERMAL SPORLAN EBSSE 10
12A4206A01	1	ACCESS VALVE, 1/4" ODC X 1/4"
12A2742S08	1	SUPERHOSE ASSY, 60" LONG, 1/4"

Liquid Line Return Parts Air -Cooled

12A4200B0703	1	VALVES, BALL CHECK, MECHANIWA
12A2402W0108	1	BUSHING, WC, REDUCER, 7/8 ODF
12A4200R0402	1	DISCONTINUED SEE 12A4200R0403
12A2600T01	1	ROTA-LOCK PRIMORE TEFLON FIBER SEAL
12A2451C04	1	KIT, NUT CAP (W/ GASKET), ROTALOCK FOR 1 1/4-12 THREADS
12A2396A0701	1	ROTALOCK STRAIGHT ADPT. 7/8"ID

Liquid Return Line Parts Water- Cooled

12A4200R0402	1	DISCONTINUED SEE 12A4200R0403
12A4200R0403	1	VALVES, ROTALOCK BRASS VALVE W/OFFSET PORT, 5/8 IDS X 1-14
12A2451T16	1	TEE BRASS 1/4" FLARE REQUIRED FOR 12A4200R0403
12A2451C01	1	CAP, BRASS, WC, 1/4" FLARE , NEOPRENE SEAL (MUELLER#A-16447)

Suction Line

12A2710H23	1	HEAT EXCHANGER, DOUCETTE #HE 5
12A2000A13		ACCUMULATOR, HX3706, REFRIG. R

Thawing Gas Line

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A4200A09041	1	VALVES, SOLENOID, SPORLAN #ME3
12A4199V56	1	REPAIR KIT, VALVES, #KS-E35 F
12A2105C33	1	COIL, SPORLAN, MKC-2 DUAL JAU,
12A4200R0801	1	VALVES, ROTA-LOCK VALVE BRASS
12A4200R0802	1	VALVE, ROTA-LOCK, VERTICAL, B
12A2451R01	1	REDUCER, WC, 1/2" (F) SAE X 1/4" (M) SAE W/GASKET
12A4206A02		ACCESS FITTING, 1/4" FE SAE SH
12A2451C01	1	CAP, BRASS, WC, 1/4" FLARE , NEOPRENE SEAL (MUELLER#A-16447)

Superhose & Fittings

<u>Part Number</u>	<u>Req'd</u>	<u>Description</u>
12A2742S04	1	SUPERHOSE ASSY, 24" LONG, 1/4"
		High Pressure Switch to Compressor
12A2742S04	1	SUPERHOSE ASSY, 24" LONG, 1/4"
		Low Pressure Switch to Compressor
12A2742S06	1	SUPERHOSE ASSY, 54" LONG, 1/4"
		Compressor to Oil Separator
12A2742S05	1	SUPERHOSE ASSY, 42" LONG, 1/4"
		Freezer Pressure Switch to Freezer
12A2742S08	1	SUPERHOSE ASSY, 60" LONG, 1/4"
		Suction Line
12A2451T01		TEE, WC, 1/4SAE X 1/4MPT X 1/4
12A2451T03		TEE, ACCESS, 1/4" FFL SWIVEL
12A2451T04		TEE, BRASS 1/4" MPT X 1/4" SAE
12A2451T06		TEE, ACCESS, 1/4" MFL BRANCH W
12A2451T07		TEE, 1/8" MPT X 1/4" SAE X 1/4
12A2451T09		TEE, 1/4" SAE FLARE
12A2451T1		TEE, STREET, BRASS 1/4" MPT X

12A2451T11		TEE, 1/8" MPT X 1/4" SAE X 1/4
12A2451U01		UNION, U3-4B, 1/4 SAE X 1/4 FPT (
12A2451U02		UNION, WC, BRASS 1/4 SAE X 1/4
12A2451U05		UNION, WC, 1/4 SAE FLARE X 1/4
12A2451U06		UNION, BRASS, 1/4" SAE X 1/8"