

S0300-BV-CAT-020

AIR COMPRESSOR SYSTEM, SUB SALV, 1150-CFM, 500-PSI

System - DS0130



System DS0130

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The Submarine Salvage Air Compressor System DS0130 is a portable unit used to provide high-pressure compressed air to dewater sunken vessels in up to 1000 feet of seawater. The system consists of an 1150-scfm air compressor with its spare parts kit and support van. A Hose Reel Van VA0246 and Fuel Tank TK0040 are included. The ancillary equipment consists of salvage air hoses, an air delivery manifold, air couplings, various fittings, gauges, tools, and a spare parts kit.

System Components for DS0130

Alternates

| ESSM No | Nomenclature | Type | Qty | NS | Cont |
|---------------|---|----------|-----|----|------|
| AC0245 | AIR COMPRESSOR, 1150 CFM @ 300/500 PSI (SUB SALV) | BL | 1 | | Y |
| AC0246 | SPARE PARTS KIT, FOR AC0245 | Contents | 1 | | |
| SL0401 | ROUNDSLING BRIDLE, POLY, 4-LEG (2-13', 2-15') | Contents | 1 | | |
| TK0040 | TANK, DIESEL FUEL, 350-GALLON | BL | 1 | | |
| VA0245 | VAN, AIR COMPRESSOR SYSTEM, SUB SALV (ANC) | BL | 1 | | Y |
| CU1982 | QUICK RELEASE COUPLING ASSEMBLY | Contents | 6 | | |
| RL0600 | REEL, SUB SALV HOSE ASSY | Contents | 9 | | |
| TL1983 | WRENCH FOR SALVAGE DECK FITTING | Contents | 2 | | |
| TL1985 | SUBMARINE ROYLYN CAP REMOVAL TOOL | Contents | 2 | | |
| VA0246 | VAN, AIR COMPRESSOR SYS, SUB SALV (HOSE REELS) | BL | 1 | | Y |
| RL0600 | REEL, SUB SALV HOSE ASSY | Contents | 12 | | |

Baseline verified on 3/16/2017, * Not shown in catalog.

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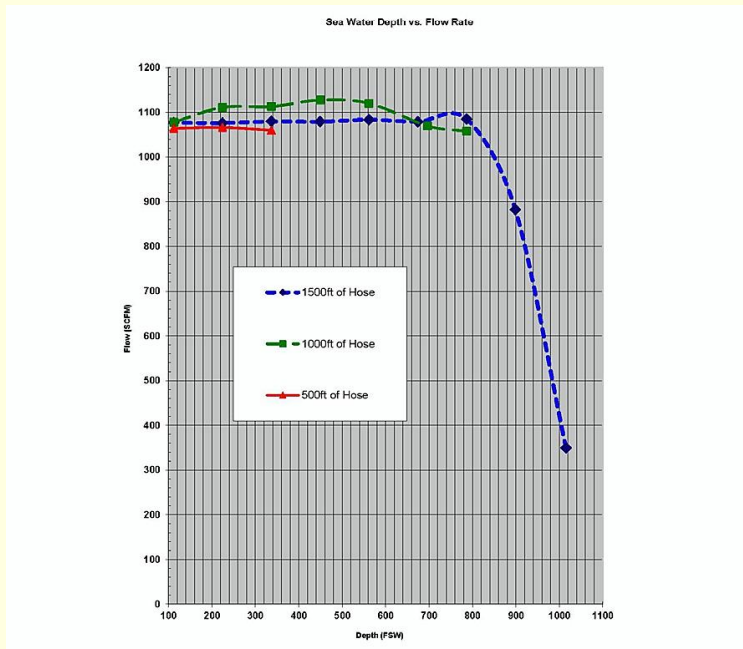
AIR COMPRESSOR SYSTEM, SUB SALV, 1150-CFM, 500-PSI

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ESSM - AC0245 AIR COMPRESSOR, 1150 CFM @ 300/500 PSI (SUB SALV)



Submarine Salvage Air Compressor AC0245



AC0245 Specifications

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The Submarine Salvage Air Compressor AC0245 is a diesel driven, two-stage, oil-flooded, rotary screw air compressor capable of delivering up to 1150 scfm at 300 or 500 psi. The air compressor and engine assembly is skid-mounted and enclosed in a steel frame equipped with forklift slots and lifting rings to facilitate handling.

AH

Specifications

| Type | Description | Qty |
|----------------------------|-----------------------|-----|
| Compressor Assembly | | |
| Manufacturer | Hurricane Compressors | |
| Model | 10081 | |
| Compressor | | |
| Manufacturer | Sullair | |
| Model | 1150/300/500 | |
| Type | Rotary screw | |
| Rated capacity | 1150 scfm | |
| Operating pressure | 300/500 psi | |
| Engine | | |
| Manufacturer | Caterpillar | |
| Model | CAT 3456E | |
| Rated speed | 1800 rpm | |
| Idle speed | 1400 rpm | |
| Horsepower | 607 | |
| Starting system | 24 V dc | |
| Fuel | Diesel | |
| Fuel source | External fuel tank | |
| Fuel consumption | 12.5 gph | |

Physical Characteristics

| Type | Descriptions | | |
|------------|--------------------|-------------|--|
| | Shipping | Operating | |
| Length | 14 ft, 4 in | 14 ft, 4 in | |
| Width | 7 ft, 5 in | 7 ft, 5 in | |
| Height | 7 ft, 6 in | 7 ft, 6 in | |
| Cube | 798 cu ft | 798 cu ft | |
| Footprint | 107 sq ft | 107 sq ft | |

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Physical Characteristics

| Type | Descriptions | | |
|------------|--------------------|-----------|--|
| Weight | 17,925 lb | 17,925 lb | |

References

| Ref No | Reference |
|--------|---|
| 1 | Caterpillar Operation and Maintenance Manual, 3406E and 3456 Industrial Engines, SEBU6959-02 |
| 2 | Caterpillar Parts Manual, 3456 Industrial Engine, SEBP2839-01 |
| 3 | Hurricane Compressors, Rotary Screw Air Compressor, 1150 CFM/300/500 PSIG Submarine Salvage, Operation and Maintenance Manual, Model #10081 |

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ESSM - AC0246 SPARE PARTS KIT, FOR AC0245



Spare Parts Kit AC0246

The Spare Parts Kit AC0246 contains the items necessary to support the operation and maintenance of one Submarine Salvage Air Compressor AC0245.

AH

| Specifications | | |
|---------------------------------------|-----------------|-----|
| Type | Description | Qty |
| Manufacturer | ESSM Facility | |
| Model | AC0246 | |
| This kit contains the following items | | |
| Container, spare parts | 24" x 16" x 13" | 1 |
| Belt, alternator | | 1 |
| Belt, water pump | | 1 |
| Element, fuel-water separator | | 1 |
| Element, high pressure filter, 2" | | 1 |
| Element, Sullair moisture separator | | 1 |
| Filter, fuel, primary | | 1 |

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Specifications

| Type | Description | Qty |
|--------------------------|-------------|-----|
| Filter, fuel, secondary | | 1 |
| Filter, engine oil | | 1 |
| Fuse, 10-amp | | 3 |
| Fuse, 15-amp | | 3 |
| Light bulb, incandescent | | 10 |
| Inventory, laminated | | 1 |

Physical Characteristics

| Type | Descriptions | | |
|------------|--------------------|--|--|
| | Shipping | | |
| Length | 2 ft, 0 in | | |
| Width | 1 ft, 4 in | | |
| Height | 1 ft, 1 in | | |
| Cube | 3 cu ft | | |
| Footprint | 3 sq ft | | |
| Weight | 30 lb | | |

References

| Ref No | Reference |
|--------|-----------|
| 1 | None |

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ESSM - SL0401 ROUNDSLING BRIDLE, POLY, 4-LEG (2-13', 2-15')



Roundsling Bridle SL0401

The Polyester Roundsling Bridle SL0401 is designed specifically for handling the Submarine Salvage Air Compressor AC0245 in an under-the-hook configuration using a crane. The lifting assembly has unequal length legs to keep the compressor level during lifting. The bridle is equipped with four screw pin shackles and is shipped with the air compressor.

| Specifications | | |
|----------------------|-------------------|-----|
| Type | Description | Qty |
| Sling | | |
| Manufacturer | Flexilift | |
| Model | FC1550 | |
| Vertical SWL | 36,700 lb | |
| Leg length | 2 legs, 13' long | |
| | 2 legs, 15' long | |
| Central lifting ring | 1 3/4" oblong | |
| Shackle | | |
| Manufacture | Commercial | |
| Shackle type | Screw pin shackle | |
| Size | 1 1/4" | |

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Specifications

| Type | Description | Qty |
|--------------------|-------------|-----|
| Working load limit | 18 tons | |

Physical Characteristics

| Type | Descriptions | | |
|------------|--------------------|--|--|
| | Shipping | | |
| Length | 2 ft, 6 in | | |
| Width | 2 ft, 6 in | | |
| Height | 2 ft, 6 in | | |
| Cube | 16 cu ft | | |
| Footprint | 7 sq ft | | |
| Weight | 90 lbs | | |

References

| Ref No | Reference |
|--------|-----------------------------|
| 1 | Lift-All catalog 2014 |
| 2 | Crosby General Catalog 2013 |

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ESSM - TK0040 TANK, DIESEL FUEL, 350-GALLON, TRANSPORTABLE



350-Gallon Diesel Fuel Tank TK0040

The 350-Gallon Diesel Fuel Tank TK0040 is a portable, stainless steel container used to provide No. 2 diesel fuel to high flow components such as air compressors and firefighting systems. The tank is equipped with four lifting pad eyes at the top and forklift slots at the base to facilitate handling. A tank opening with a cap is provided for filling and for attachment of a fuel pickup and return assembly. A ball valve, located on the bottom of the tank, is used to drain fuel from the tank.

| Specifications | | |
|-----------------|---------------------------------|-----|
| Type | Description | Qty |
| Manufacturer | Hoover Materials Handling Group | |
| Design pressure | 9.5 psi | |
| Material | Stainless steel | |
| Capacity | 350 gallons | |

| Physical Characteristics | | | |
|--------------------------|--------------------|-----------------|--|
| Type | Descriptions | | |
| | Shipping (empty) | Operating full) | |
| Length | 4 ft, 2 in | 4 ft, 2 in | |
| Width | 3 ft, 8 in | 3 ft, 8 in | |
| Height | 4 ft, 5 in | 4 ft, 5 in | |
| Cube | 68 cu ft | 68 cu ft | |

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Physical Characteristics

| Type | Descriptions | | |
|------------|--------------------|----------|--|
| Footprint | 16 sq ft | 16 sq ft | |
| Weight | 473 lb | 2400 lb | |

References

| Ref No | Reference |
|--------|-----------|
| 1 | None |

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ESSM - VA0245 VAN, AIR COMPRESSOR SYSTEM, SUB SALV (ANC)



Submarine Salvage Air Compressor System Van VA0245



High Pressure Submarine Salvage Air Manifold

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The Air Compressor System Van VA0245 is used for storing and shipping the ancillary equipment for the Air Compressor System S01300 when the 1150-Cfm Air Compressor (AC0245) is the designated air compressor. The van contains a high-pressure air manifold to control the supply and return air to the vessel being salvaged and the tools required to maintain and operate the Air Compressor System.

Specifications

| Type | Description | Qty |
|---|--|-----|
| Manufacturer | ESSM Facility | |
| Model | VA0245 | |
| This van contains the following items: | | |
| Reel, Submarine Salvage Hose Assembly | RL0600 | 9 |
| Hose, 1 1/2" x 100', 500-psi, Synflex | HS1984 | 3 |
| Hose, 1 1/2" x 200', 500-psi, Synflex | HS1985 | 1 |
| Quick Release Coupling Assembly | CU1982 | 2 |
| Tool, Cap Removal, Submarine Salvage | TL1983 | 2 |
| Wrench for Salvage Deck Fitting | TL1985 | 2 |
| Roundsling, Polyester, 16' | | 4 |
| Block, contacts (KA1, KA2, and KA3) | | 1 |
| Element, coolant cartridge | | 1 |
| Element, Sullair moisture separator | | 1 |
| Element, primary and safety air cleaner | | 2 |
| Relay, manual reset | | 1 |
| Repair kit | back pressure regulator and blowdown valve | 1 |
| Repair kit, | solenoid valve | 1 |
| Repair kit | separator element | 1 |
| Repair kit | shaft seal | 1 |
| Repair kit | thermostatic valve | 1 |
| Switch, time delay | | 1 |
| Inventory, laminated | | 1 |

Physical Characteristics

| Type | Descriptions | | |
|------------|--------------------|------------------------|--|
| | Shipping | Shipping (S/N 9010795) | |
| Length | 20 ft, 0 in | 20 ft, 0 in | |
| Width | 8 ft, 0 in | 8 ft, 0 in | |

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Physical Characteristics

| Type | Descriptions | | |
|------------|--------------------|------------|--|
| Height | 8 ft, 0 in | 8 ft, 6 in | |
| Cube | 1360 cu ft | 1280 cu ft | |
| Footprint | 160 sq ft | 160 sq ft | |
| Weight | 13,325 lb | 11,620 lb | |

References

| Ref No | Reference |
|--------|-----------|
| 1 | None |

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ESSM - CU1982 QUICK RELEASE COUPLING ASSEMBLY



Quick Release Coupling CU1982

The Quick Release Coupling CU1982 is used to connect one end of a salvage air hose to a submarine salvage air fitting.

Specifications

| Type | Description | Qty |
|-------------------|------------------------------------|-----|
| Manufacturer | Roylyn | |
| Model | 7714 | |
| Hose size | 1 1/2" | |
| Hose fitting size | 1 1/4" | |
| Connection | National Pipe (NP) mechanical seal | |

Physical Characteristics

| Type | Descriptions | | |
|------------|----------------------------|--|--|
| | Shipping | | |
| Length | 0 ft, 6 in | | |
| Width | 0 ft, 7 in (includes two e | | |
| Height | 0 ft, 3 in | | |
| Cube | 1 cu ft | | |

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Physical Characteristics

| Type | Descriptions | | |
|------------|--------------------|--|--|
| Footprint | 1 sq ft | | |
| Weight | 4 lb | | |

References

| Ref No | Reference |
|--------|-----------|
| 1 | None |

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ESSM - RL0600 REEL, SUB SALV HOSE ASSY



Submarine Salvage Hose Assembly Reel RL0600

The Hose Assembly Reel RL0600 contains 1 1/2-inch Synflex salvage air hose assemblies. Each hose reel is configured to hold one 200-foot and three 100-foot air hoses with end and swivel fittings. Hose reel assemblies are stored in the Air Compressor System Ancillary Vans VA0245 (9 reels), and the Hose Reel Van VA0246 (12 reels).

| Specifications | | |
|---------------------------------------|----------------------------|-----|
| Type | Description | Qty |
| Manufacturer | ESSM facility | |
| Model | RL0600 | |
| Reel, Submarine Salvage Hose Assembly | RL0600 | 1 |
| Hose, 1 1/2" x 200', 500 psi | Synflex, Submarine Salvage | 1 |
| Hose, 1 1/2" x 100', 500 psi | Synflex, Submarine Salvage | 3 |
| Fitting, 1 1/2" Swivel, Dixon | | 1 |

| Physical Characteristics | | | |
|--------------------------|--------------------|--|--|
| Type | Descriptions | | |
| | Shipping | | |
| Length | 4 ft, 8 in | | |

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Physical Characteristics

| Type | Descriptions | | |
|------------|--------------------|--|--|
| Width | 2 ft, 4 in | | |
| Height | 4 ft, 8 in | | |
| Cube | 51 cu ft | | |
| Weight | 515 lb | | |

References

| Ref No | Reference |
|--------|-----------|
| 1 | None |

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ESSM - TL1983 WRENCH FOR SALVAGE DECK FITTING



Salvage Deck Fitting Wrench TL1983

The Salvage Deck Fitting Wrench TL1985 is used to provide access to the submarine hull-mounted salvage air fitting during connection of the salvage air hose. It is designed as a combination tool to allow the diver to remove the salvage air connection cap, connect the salvage air hose, and operate the salvage air hull inlet valve. Two salvage deck-fitting wrenches are stored in each of the Submarine Salvage Support Vans (VA0245 and VA0246).

Specifications

| Type | Description | Qty |
|--------------|-------------|-----|
| Manufacturer | Roylyn | |
| Model | 0160-0003 | |

Physical Characteristics

| Type | Descriptions | | |
|-------------|--------------------|--|--|
| | Shipping | | |
| Length | 2 ft, 4 in | | |
| Width | 1 ft, 0 in | | |
| Height | 0 ft, 4 in | | |
| Cube | 1 cu ft | | |
| Weight (lb) | 7 lb | | |
| Footprint | 3 sq ft | | |

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References

| Ref No | Reference |
|--------|---|
| 1 | U.S. Navy Ship Salvage Manual, Volume II, Submarine Salvage, NAVSHIPS 0994-000-3020 |

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ESSM - TL1985 SUBMARINE ROYLYN CAP REMOVAL TOOL



Submarine Roylyn Cap Removal Tool TL1985

The Roylyn Cap Removal Tool TL1985 is used to operate the submarine hull-mounted salvage air fitting valves to allow supply of high pressure air to the high and low salvage deck connections during submarine salvage operations. Two cap removal tools are stored in each of the Submarine Salvage Support Vans (VA0245 and VA0246).

| Specifications | | |
|----------------|---------------|-----|
| Type | Description | Qty |
| Manufacturer | Essm Facility | |
| Part Number | TL1985 | |

| Physical Characteristics | | | |
|--------------------------|----------------------------|--|--|
| Type | Descriptions | | |
| | Shipping | | |
| Length | 0 ft, 7 in | | |
| Width | 0 ft, 8 in (includes two e | | |
| Height | 0 ft, 3 in | | |
| Cube | 1 cu ft | | |
| Footprint | 1 sq ft | | |
| Weight (lb) | 5 lb | | |

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System - DS0130

References

| Ref No | Reference |
|--------|---|
| 1 | U.S. Navy Ship Salvage Manual, Volume II, Submarine Salvage, NAVSHIPS 0994-000-3020 |

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ESSM - VA0246

VAN, AIR COMPRESSOR SYS, SUB SALV (HOSE REELS)

The Submarine Salvage Air Compressor System Van VA0246 is used for storing and shipping the salvage air hoses on storage reels required for use with the salvage air compressors.

Specifications

| Type | Description | Qty |
|--|---------------|-----|
| Manufacturer | ESSM Facility | |
| Model | VA0246 | |
| This van contains the following items: | | |
| Reel, Sub Salv Hose Assembly | RL0600 | 12 |
| Hose, 1 1/2" x 100', 500-psi, Synflex | HS1984 | 3 |
| Hose, 1 1/2" x 200', 500-psi, Synflex | HS1985 | 1 |
| Roundsling, Polyester, 16' | | 4 |

Physical Characteristics

| Type | Descriptions | | |
|------------|--------------------|------------------------|--|
| | Shipping | Shipping (S/N 7175517) | |
| Length | 20 ft, 0 in | 20 ft, 0 in | |
| Width | 8 ft, 0 in | 8 ft, 0 in | |
| Height | 8 ft, 0 in | 8 ft, 6 in | |
| Cube | 1360 cu ft | 1280 cu ft | |
| Footprint | 160 sq ft | 160 sq ft | |
| Weight | 11,560 lb | 11,560 lb | |

References

| Ref No | Reference |
|--------|-----------|
| 1 | None |

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ESSM - RL0600 REEL, SUB SALV HOSE ASSY



Submarine Salvage Hose Assembly Reel RL0600

The Hose Assembly Reel RL0600 contains 1 1/2-inch Synflex salvage air hose assemblies. Each hose reel is configured to hold one 200-foot and three 100-foot air hoses with end and swivel fittings. Hose reel assemblies are stored in the Air Compressor System Ancillary Vans VA0245 (9 reels), and the Hose Reel Van VA0246 (12 reels).

| Specifications | | |
|---------------------------------------|----------------------------|-----|
| Type | Description | Qty |
| Manufacturer | ESSM facility | |
| Model | RL0600 | |
| Reel, Submarine Salvage Hose Assembly | RL0600 | 1 |
| Hose, 1 1/2" x 200', 500 psi | Synflex, Submarine Salvage | 1 |
| Hose, 1 1/2" x 100', 500 psi | Synflex, Submarine Salvage | 3 |
| Fitting, 1 1/2" Swivel, Dixon | | 1 |

| Physical Characteristics | | |
|--------------------------|--------------------|--|
| Type | Descriptions | |
| | Shipping | |
| Length | 4 ft, 8 in | |

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Physical Characteristics

| Type | Descriptions | | |
|------------|--------------------|--|--|
| Width | 2 ft, 4 in | | |
| Height | 4 ft, 8 in | | |
| Cube | 51 cu ft | | |
| Weight | 515 lb | | |

References

| Ref No | Reference |
|--------|-----------|
| 1 | None |