

10/29/08 SLL

SPECIFICATIONS

MATERIAL NO. 302042

AIR DRYER (MIDLAND)

The following shall indicate MINIMUM requirements including all genuine parts, accessories, equipment and safety features considered standard, whether mentioned herein or not. The air dryer shall comply with all current applicable Federal Safety standards and OSHA requirements.

Unless otherwise specified, each unit shall include all specified parts, made available for the indicated model by the equipment manufacturer. Specified items not available through the equipment manufacturer shall conform to the best quality standards known to that particular industry.

SPECIFICATIONS:

The design of the kit shall provide both the spin-on desiccant filter and the coalescing filter.

REFERENCE:

Midland P/N DQ6026 kit, or equal.

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SPECIFICATIONS

**AIR DRYER <BENDIX- AD-IP
PURAGUARD COALESCING
TYPE CARTRIDGE
MATERIAL NO. 304014**

The following shall indicate MINIMUM requirements including all genuine parts, accessories, equipment and safety features considered standard, whether mentioned herein or not. The air dryer shall comply with all current applicable Federal Safety standards and OSHA requirements.

Unless otherwise specified, each unit shall include all specified parts, made available for the indicated model by the equipment manufacturer. Specified items not available through the equipment manufacturer shall conform to the best quality standards known to that particular industry.

PERFORMANCE:

The proposed unit shall be identical with the standard or improved model and a current production unit in use by the industry for the past twelve months preceding this bid opening.

It shall be the responsibility of the bidder to assure that the proposed equipment conforms to the specifications and performs satisfactorily according to these specifications.

SPECIFICATIONS:

The cartridge package shall include O rings (quantity 2), lubricant and there shall be a disassembly, assembly, unit testing guide. Unit must be a Coalescing type cartridge.

REFERENCE:

BENDIX AD-IP P/N 109493 PGX (remanufactured without exchange (outright) or BENDIX AD-IP P/N 065624 PG (New), or equal. COALESCING CARTRIDGE

WARRANTY:

The vendor will replace, free of charge within three (3) years/350,000 miles warranty on equipment and service from date of sale, any air dryer kit which in the judgment of the manufacturer has failed because of defective material or workmanship, provided it is shown to be properly mounted, and not subject to the above in operation or assembly.

SPECIFICATIONS

MATERIAL NO. 304015

BRAKE DRYER, AIR

The following shall indicate MINIMUM requirements including all genuine parts, accessories, equipment and safety features considered standard, whether mentioned herein or not. The air dryer shall comply with all current applicable Federal Safety standards and OSHA requirements.

Unless otherwise specified, each unit shall include all specified parts, made available for the indicated model by the equipment manufacturer. Specified items not available through the equipment manufacturer shall conform to the best quality standards known to that particular industry.

SPECIFICATIONS:

The KIT shall include (1) Desiccant Cartridge, (1) Desiccant Cartridge O-Ring , (1) Outer Housing O-Ring, Grease Lube and there shall be a disassembly, assembly, unit testing guide.

REFERENCE:

Bendix P/N 107796-Kit or approved equivalent.

SPECIFICATIONS

MATERIAL NO. 302069

ALARMS – BACKUP TYPE, STANDARD

The following shall indicate **MINIMUM** requirements including all genuine parts, accessories, equipment and safety features considered standard, whether mentioned herein or not. The alarm shall comply with all current applicable Federal Safety standards and OSHA requirements.

Unless otherwise specified, each unit shall include all specified parts, made available for the indicated model by the equipment manufacturer. Specified items not available through the equipment manufacturer shall conform to the best quality standards known to that particular industry.

SPECIFICATIONS:

Shall consist of a solid state electronic circuit and alarm assembly including all items necessary to provide operational capability. It shall be capable of operation with 12, 24, or 36 volt electrical systems, positive or negative ground and shall not be damaged by reverse polarity. The alarm shall sound at intervals of 1 to 2 warnings per second at a sound level $112 \text{ db(A)} +4$ measured at a distance of four (4) feet directly behind the rearmost point of the vehicle at a height of four (4) feet above the ground.

The housing shall be of corrosion-resistant metal or 30% glass fiber reinforced type 6 nylon (tensile strength 23,000 psi minimum and 34,000 psi flexural strength minimum). Entire alarm shall be steam cleanable.

WARRANTY:

There shall be a life time warranty from the date of sale, on any alarm which in the judgment of the manufacturer has failed because of defective material or workmanship, provided it is shown to be properly mounted, and not subject to the above in operation or assembly. A copy of the installation instructions and warranty shall be packed in each boxed alarm.

The successful bidder shall be an authorized dealer for the proposed back-up alarm and shall comply with the manufacturer's warranty or authorize a qualified dealer in the locality in which the unit is assigned, to do whatever is required to comply with the manufacturer's warranty without cost to the Commonwealth.

REFERENCE:

The following models are acceptable provided they contain the specified equipment and meet all specifications contained herein:

REF: ECCO 850, Prece-380, Grote 73030 OR EQUAL meeting these specifications.

SPECIFICATIONS

MATERIAL NO. 302070

ALARMS – BACKUP TYPE, SHOCK MOUNTED

The following shall indicate MINIMUM requirements including all genuine parts, accessories, equipment and safety features considered standard, whether mentioned herein or not. The alarm shall comply with all current applicable Federal Safety standards and OSHA requirements.

Unless otherwise specified, each unit shall include all specified parts, made available for the indicated model by the equipment manufacturer. Specified items not available through the equipment manufacturer shall conform to the best quality standards known to that particular industry.

SPECIFICATIONS:

Shall consist of a solid state electronic circuit and alarm assembly including all items necessary to provide operational capability. It shall be capable of operation with 12, 24, or 36 volt electrical systems, positive or negative ground and shall not be damaged by reverse polarity. The alarm shall sound at intervals of 1 to 2 warnings per second at a sound level 112 decibels measured at a distance of four (4) feet directly behind the rearmost point of the vehicle at a height of four (4) feet above the ground. Pigtail shall be 16" long with molded .180 bullet terminal.

The housing shall be of corrosion-resistant metal or 30% glass fiber reinforced type 6 nylon (tensile strength 23,000 psi minimum and 34,000 psi flexural strength minimum). Entire alarm shall be steam cleanable.

The housing shall be capable of being mounted in a 4in/10cm rubber grommet.

Alarm shall be in accordance with SAE Type A.

SPECIFICATIONS
ALARM – BACKUP TYPE, SHOCK
MOUNTED MATERIAL NO. 302070

PACKAGING:

One (1) per box, with part number identification.

WARRANTY:

There shall be a life time warranty from the date of sale, on any alarm which in the judgment of the manufacturer has failed because of defective material or workmanship, provided it is shown to be properly mounted, and not subject to the above in operation or assembly. A copy of the installation instructions and warranty shall be packed in each boxed alarm.

REFERENCE:

The following models are acceptable provided they contain the specified equipment and meet all specifications contained herein:

REF: ECCO 450-PEN, Grote 01-7316-70 (112 decibel) OR EQUAL meeting these specifications.

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SPECIFICATIONS

MATERIAL NO. 302071

MIRROR HEAD – WEST COAST

The following shall indicate MINIMUM requirements including all genuine parts, accessories, equipment and safety features considered standard, whether mentioned herein or not. The mirror head shall comply with all current applicable Federal Safety standards and OSHA requirements.

Unless otherwise specified, each unit shall include all specified parts, made available for the indicated model by the equipment manufacturer. Specified items not available through the equipment manufacturer shall conform to the best quality standards known to that particular industry.

SPECIFICATIONS:

The mirror head (West Coast) shall be minimum 7 in x 16 in head, minimum 20 gauge steel finished in baked white enamel. The back of the head, (steel side) shall be ribbed for added strength, and shall be a one piece back. The mounting studs shall be ¼ in – 5/16 in NC x (minimum) 2 in long. Stud shall be SAE, metric is unacceptable. Studs shall be fitted with acorn nuts. All hardware metric is unacceptable. Studs shall be cadmium plated or stainless. Glass shall be minimum, double strength quality, and shall have a minimum reflective surface of 87 sq. in. Glass shall be cushioned around its entire perimeter in rubber or vinyl.

REFERENCE:

REF: Grote 16101, Peterson 616W, Trucklite 97806, or equal, meeting these specifications.

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SPECIFICATIONS

MATERIAL NO.302074

MIRROR, BLIND – SPOT – ELIMINATION

The following shall indicate MINIMUM requirements including all genuine parts, accessories, equipment and safety features considered standard, whether mentioned herein or not. The mirror shall comply with all current applicable Federal Safety standards and OSHA requirements.

Unless otherwise specified, each unit shall include all specified parts, made available for the indicated model by the equipment manufacturer. Specified items not available through the equipment manufacturer shall conform to the best quality standards known to that particular industry.

SPECIFICATIONS:

Minimum 8 in, diameter stainless steel or aluminum head with mirror. Mirror shall be a conventional convex mirror, and shall not be of the half-round cross view type. Mounting shall be minimum 1/4 in x 20 female ball stud with a L-bracket. Mirror shall be cushioned in rubber or vinyl.

REFERENCE:

REF: Trucklite 97803 with “L” Bracket, Grote 12183, or equal.

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SPECIFICATIONS

MATERIAL NO. 302075

MIRROR, CONVEX ROUND 8" HEATED RETRACTABLE

The following shall indicate MINIMUM requirements including all genuine parts, accessories, equipment and safety features considered standard, whether mentioned herein or not. The mirror shall comply with all current applicable Federal Safety standards and OSHA requirements.

Unless otherwise specified, each unit shall include all specified parts, made available for the indicated model by the equipment manufacturer. Specified items not available through the equipment manufacturer shall conform to the best quality standards known to that particular industry.

PERFORMANCE:

The proposed unit shall be identical with the standard or improved model and a current production unit in use by the industry for the past twelve months preceding this bid opening.

It shall be the responsibility of the bidder to assure that the proposed equipment conforms to the specifications and performs satisfactorily according to these specifications.

SPECIFICATIONS:

Minimum 8 in. diameter, convex round heated type. Mirror back shall be stainless steel with mirror glass shock mounted and sealed. The minimum reflective surface shall be 46 sq. in. There shall be a ball stud offset 2" from center. Wiring shall be insulated and jacketed and shall extend a minimum of 24 in from the head.

REFERENCE:

Grote 12813, or equal

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SPECIFICATIONS

MATERIAL NO. 302073

MIRROR, CONVEX – RECT. – 5 IN (MIN.) – 6 IN (MAX.) X 8 IN (MIN.) 9 IN (MAX.)

The following shall indicate MINIMUM requirements including all genuine parts, accessories, equipment and safety features considered standard, whether mentioned herein or not. The mirror shall comply with all current applicable Federal Safety standards and OSHA requirements.

Unless otherwise specified, each unit shall include all specified parts, made available for the indicated model by the equipment manufacturer. Specified items not available through the equipment manufacturer shall conform to the best quality standards known to that particular industry.

SPECIFICATIONS:

5 in. (min.) – 6 in. (max.) x 8 in. (min.) – 9 in. (max.) stainless steel head with mirror glass and stainless steel – L-bracket. Mounting shall be ¼ in. ball stud with sphere nut.

There shall be minimum of three (3) screws for stud tightening. Stud shall be offset from center. Mirror shall be cushioned in rubber or vinyl.

REFERENCE:

Chem Cal P/N 10681

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SPECIFICATIONS

MATERIAL NO. 308968

MIRROR, HEATED, WEST COAST TYPE (HEAD ONLY)

The following shall indicate MINIMUM requirements including all genuine parts, accessories, equipment and safety features considered standard, whether mentioned herein or not. The mirror shall comply with all current applicable Federal Safety standards and OSHA requirements.

Unless otherwise specified, each unit shall include all specified parts, made available for the indicated model by the equipment manufacturer. Specified items not available through the equipment manufacturer shall conform to the best quality standards known to that particular industry.

SPECIFICATIONS:

6 in x 16 in, minimum, rectangular West Coast type. Mirror back shall be stainless steel with mirror glass shock mounted and sealed. The heating element shall affect a minimum of 95% of the rear surface on a first surface chrome glass. Minimum reflective surface shall be 90 sq. in. The wires shall be fitted in such a way that the mirror-glass element can be changed by unplugging the two wire lead. There shall be two (2), 3/8 in. "T" bars or studs, for mounting. There shall be matching 3/8 in acorn nuts. Wiring shall be insulated and jacketed and shall extend a minimum of 24 in from the head. The wires shall be compatible with those on the Delbar HR-H44. All hardware shall be cadmium plated, at a minimum.

REFERENCE:

REF: Rosco P/N 716SSDELH or equal.

SPECIFICATIONS

MATERIAL NO. 302083

VEHICLE MOUNTED INFRARED SENSOR

The following shall indicate MINIMUM requirements including all genuine parts, accessories, equipment and safety features considered standard, whether mentioned herein or not. The sensor shall comply with all current applicable Federal Safety standards and OSHA requirements.

Unless otherwise specified, each unit shall include all specified parts, made available for the indicated model by the equipment manufacturer. Specified items not available through the equipment manufacturer shall conform to the best quality standards known to that particular industry.

SPECIFICATIONS:

Item	Description
RW-1	Basic temperature indicating system
Accuracy: greater)	+/- 1% of full scale or +/- 1° C (whichever is
Repeatability:	+/- 0.50 of full scale
Emissivity:	.96
Field of View:	10 Degrees
Operating Voltage:	12 VDC unregulated
Operating Ambient Temperature:	-40° to +75° C
Temperature Display Range:	-40° to +90° C
Response Time:	100 milli-sec at sensor with 500 milli-sec display buffer
Cable:	12 ft. Shielded or minimum 8 ft. Shielded
Weight:	Sensor Head; 5oz. Display; 4 oz. (minimum)
Sensor Head Features:	Rugged 4 inch long anodized aluminum Aerodynamic Enclosure, AeroFlush, self-cleaning lens, EMI/RFI Shielded electronics,

mirror bracket mounting typical.

Display Features:

Standard 2 inch diameter guage enclosure or 2 Inch Diameter pedestal mounting. Illuminated Auto Dim display with **air** temperature and **road** surface Temperature. Freezing threshold audio and visual alert. Fahrenheit.

Vibration:

4 g's two axis, Sensor Head and Display

Shock:

100 G's I/R sensor element

REFERENCE:

Commercial Vehicle Systems P/N Roadwatch1, or equal.

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SPECIFICATIONS

MATERIAL NO. 304016

GUARD,SPLASH-RUBBER-TRAILER & TRUCK

The following shall indicate MINIMUM requirements including all genuine parts, accessories, equipment and safety features considered standard, whether mentioned herein or not. The splash guard shall comply with all current applicable Federal Safety standards and OSHA requirements.

Unless otherwise specified, each unit shall include all specified parts, made available for the indicated model by the equipment manufacturer. Specified items not available through the equipment manufacturer shall conform to the best quality standards known to that particular industry.

SPECIFICATIONS:

Shall be manufactured of oil and salt resisting, molded natural or synthetic rubber. Shall be reinforced with nylon or cotton cord.

The body of the splash guard shall be a minimum of .09375 in. The trim area shall be 3/8 in. minimum thickness. The body area within the outside dimensions of 24"W by 30" H, tolerances +/- .250 in. The weight of the splash guard shall be 6 lbs., minimum.

NOTE: All dimensions having +/- tolerance shall be within that tolerance range. All dimensions that are stated as a minimum are that, but the minimum may be exceeded.

Unacceptable: Anti-sail type splash guard.

REFERENCE: TW 823-5092

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SPECIFICATIONS

MATERIAL NO. 304017

GUARD, SPLASH – RUBBER – TRAILER & TRUCK

The following shall indicate MINIMUM requirements including all genuine parts, accessories, equipment and safety features considered standard, whether mentioned herein or not. The splash guard shall comply with all current applicable Federal Safety standards and OSHA requirements.

Unless otherwise specified, each unit shall include all specified parts, made available for the indicated model by the equipment manufacturer. Specified items not available through the equipment manufacturer shall conform to the best quality standards known to that particular industry.

SPECIFICATIONS:

Shall be manufactured of oil and salt resisting, molded natural or synthetic rubber. Shall be reinforced with nylon or cotton cord.

The body of the splash guard shall be a minimum of .09375 in. The trim area shall be 3/8 in. minimum thickness. The body area within the outside dimensions of 24"W by 36" H, tolerances +/- .250 in. The weight of the splash guard shall be 7.5 lbs., minimum.

NOTE: All dimensions having +/- tolerance shall be within that tolerance range. All dimensions that are stated as a minimum are that, but the minimum may be exceeded.

Unacceptable: Painted surface, anti-sail type splash guard.

REFERENCE: TW 823-5093