ON-ROAD

R-6101 Rooftop

Air Conditioner Unit

COMMERCIAL TRUCKS • CONSTRUCTION • AGRICULTURE

The R-6101 is a lightweight, high-capacity unit with a styled low profile.

Low profile ceiling plenum blends with any interior.

Our engineers set out to create a sleek, low profile housing that would look right at home on today's truck and heavy-equipment cabs. The injection-molded housing has pockets to hold the receiver drier, blower assembly, and evaporator core, so they're simpler to replace. A 12-inch Spal fan, dual-scroll/dual-inlet Spal blower, rifled-tube evaporator and a parallel flow condenser contribute to the improved performance.

R-6100 SPECIFICATIONS

BTUs	Cooling – 21,300 BTU @ 100˚F (6.2kw @ 37.8˚C) air temperature rise
AIR FLOW	299 CFM (508 m3/h)
WEIGHT	40lbs (18.1kg)
CURRENT DRAW	25.7 amps @ 13.6 VDC 12.9 amps @ 27.2 VDC
CONTROLS	Three speed blower

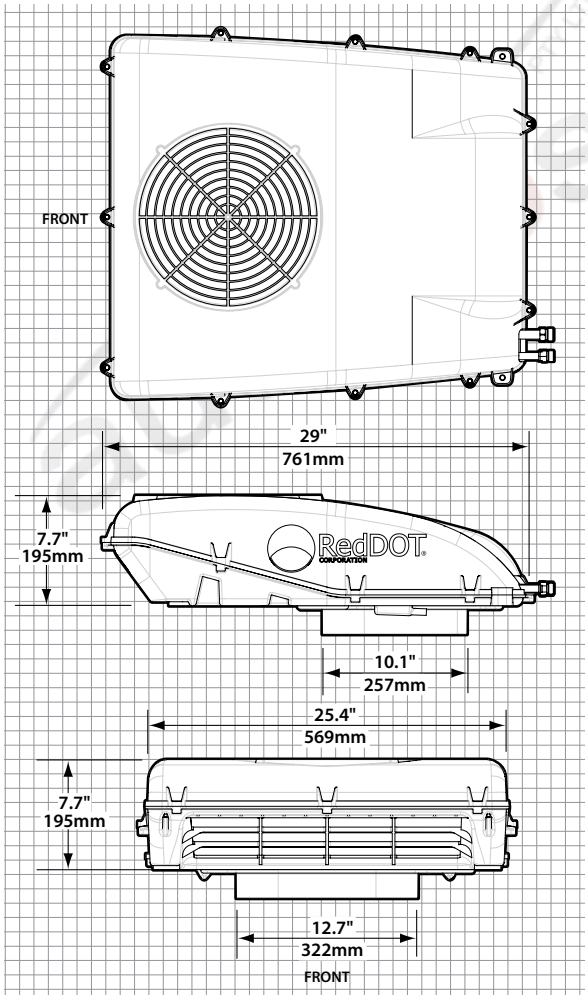
R-6100 SYSTEM ORDERING GUIDE

	R-134a	NOTES
UNITS	R-6101-0P R-6101-0-24P	12 VDC 24 VDC
CONDENSER	Contained in R-6100 unit	
INSTALLATION KIT	78R1505 78R1077	Refrigerant hose and fittings, etc. * Rooftop condenser **
OPTIONS	Universal Roof Mount Kit Replacement Recirc. Filter Replacement Receiver Drier Replacement Plenum	RD-2-1302-0P *** 78R5300 74R2546 RD-2-5974-0P
COMPRESSOR	Requires compressor and mounting kit See Compressor Section	

* ATCO version

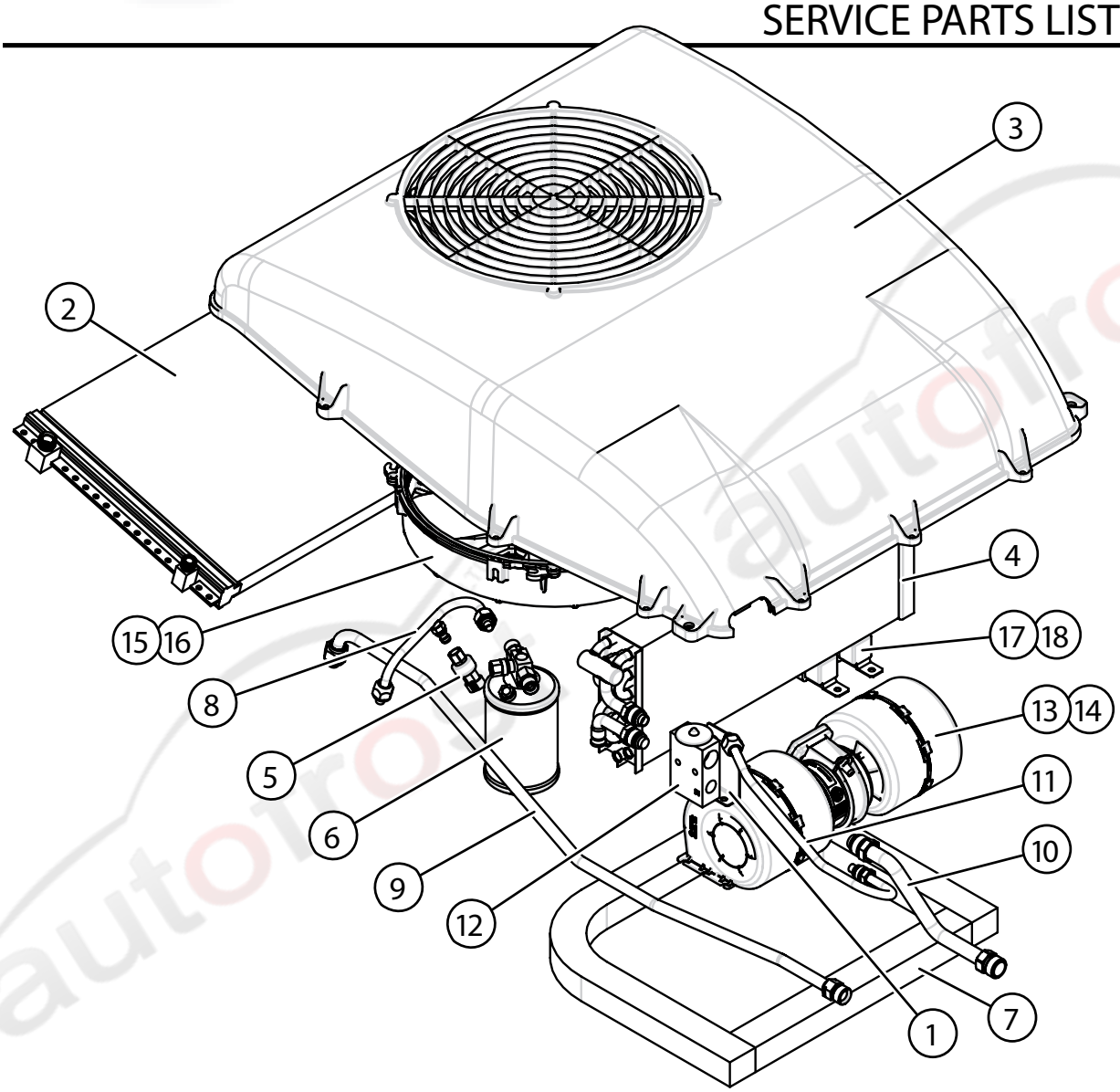
** EZ Clip version

*** Relocates unit mounting bolts to pick up integral roof bracing



Air Conditioner Model R-6101

SERVICE PARTS LIST



ITEM	NOTE	PART NO.	DESCRIPTION
1		RD-3-19432-0P	Bracket - TXV Support
2		RD-4-7337-0P	Condenser - Multi Flow
3		RD-3-19087-0P	Cover - Housing
4		RD-2-7179-0P	Evaporator Assembly
5		RD-5-11990-0P	Pressure Switch - Dual Function
6		RD-5-9419-1P	Receiver/Drier R-134a
7		RD-5-15378-0P	Seal Assembly - Roof
8		RD-4-7341-0P	Tube - #6 Cond To Drier
9		RD-4-7340-0P	Tube - #8 Inlet To Condenser
10		RD-2-7193-0P	Tube - 5/8 Suction

ITEM	NOTE	PART NO.	DESCRIPTION
11		RD-2-7192-0P	Tube - Drier To TXV
12		RD-5-6868-0P	Valve - Expansion R134a
13	B	RD-5-8837-0P	Motor Blower Assembly - Double 12v
14	C	RD-5-8838-0P	Motor Blower Assembly - Double 24v
15	B	RD-5-9076-2P	Fan/Motor Assembly - 12" Pusher 12v
16	C	RD-5-9076-3P	Fan/Motor Assembly - 12" Pusher 24v
17	B	RD-5-6690-0P	Relay - 12v with Metripak 56 Stud
18	C	RD-5-6693-0P	Relay - 24v with Metripak 56 Stud
	A,B	RD-3-19407-1P	Wire Harness - Condenser/A 24v
	A,C	RD-3-19407-0P	Wire Harness - Condenser/A 12v

NOTES: A= Not shown B=for unit R-6101-0 (12V) ONLY C=for unit R-6101-1 (24V) ONLY

RedDOT CORPORATION

AIR CONDITIONER

Red Dot Model **R-6101**

ROOFTOP

R-6

The first step in a long-term program to refresh our units, Red Dot will offer a new design for the R-6100 rooftop air conditioner this year.

Our engineers set out to create a sleek, low-profile housing that would look right at home on today's truck and heavy-equipment cabs. In the process of developing this unit, early tests show a 28% weight reduction and 30% performance increase compared to the existing design.

AIR CONDITIONER

Red Dot Model **R-6101**

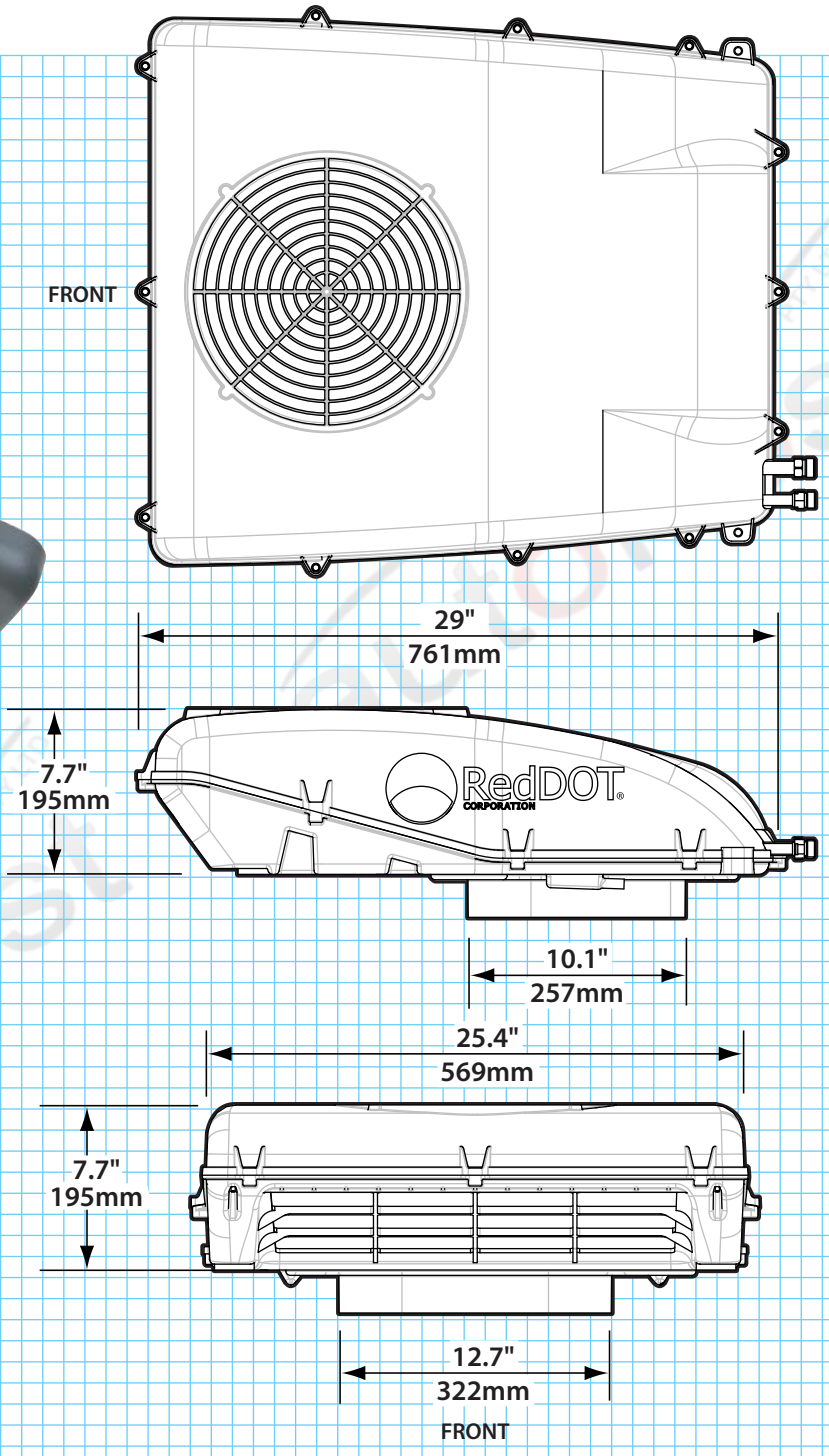
ROOFTOP

The injection-molded housing has pockets to hold the receiver-drier, blower assembly, and evaporator core, so they're simpler to replace. A 12-inch Spal fan, dual-scroll/dual-inlet Spal blower, rifled-tube evaporator, and a parallel-flow condenser contribute to the improved performance.

A low profile plenum protrudes barely 1½" into the cab and blends easily into the headliner leaving ample head room. Frigid, high-velocity air can be directed 360° through the large diffusers located directly below the double blowers. Also featured is a cab air filter incorporated into the plenum.

SPECIFICATIONS

BTU's	**Cooling** – 21,300 BTU @ 100°F (6.2kw @ 37.8°C) air temperature rise
Air Flow	299 CFM (508 m³/h)
Weight	40lbs (18.1kg)
Current Draw	25.7 amps @ 13.6 VDC 12.9 amps @ 27.2 VDC
Controls	Three speed



1 square = 1"

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