

e-advantage



Spec'ing A/C for Refuse Cabs

By Scott Dueringer

Commercial truck freight may cycle up and down, but there is never a shortage of loads in waste, refuse, and recycling. For many years now, truck OEs have focused their cab and chassis designs on ergonomics and driver comfort, including wider doors, bigger interiors, and more window glass.

These features combined with a low-speed, stop-and-go, doors-open operating environment make it a challenge to cool the cab using factory A/C alone. That's why waste haulers are great prospects for supplemental air conditioning.



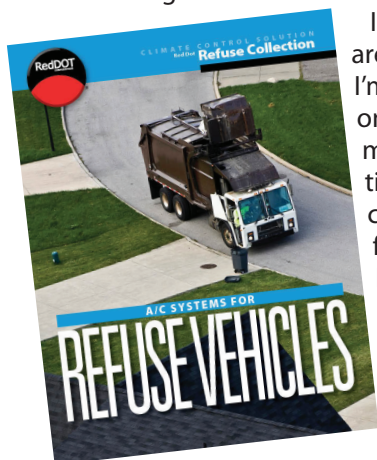
BTU/Hr, the R-2000 is a high-capacity headliner unit you can spec with an electric water pump kit for tilt cabs. The R-4500 is a dual-fan condenser that's available with a low-profile conversion kit. We sell them together with a choice of three installation kits.

For specs and other details, check out our A/C Systems for Refuse Vehicles brochure ([RD-5-13249-0P](#)). It explains more about the R-2000/R-4500 system as well as two other popular systems among refuse fleets: our high-capacity, versatile R-9715 A/C unit/R-6160 rooftop condenser, and our rugged, low-profile R-6100 rooftop A/C unit.

Every fleet manager I've met in waste/refuse/recycling is concerned about productivity; uptime; and driver comfort, safety, and retention. Better still, there's probably a refuse fleet located not too far from you. Ask your Red Dot Account Manager and all-makes parts can help you take advantage of a great opportunity to serve a local fleet.



In the Phoenix area, where I'm based, one of the most effective, proven combinations for refuse vehicles is our R-2000 A/C unit and R-4500 power condenser. At 17,000



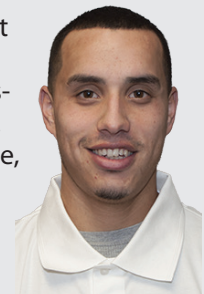
Red Dot News

Holiday Schedule

We will be closed for Nov. 22-23 for Thanksgiving and Dec. 24-Jan. 1 for the winter holidays. Last shipping day of the year: Dec. 21. We will resume business on Wednesday Jan. 2nd.

Meet Steven Paz

Steven is the newest member of the Red Dot aftermarket customer service team. Based here in Seattle, Steven's direct line is 1-800-364-2716.



Mark Your Calendar

- Jan. 28-31, 2013: Red Dot Distributor Conference, Secrets The Vine, Cancun. Talk to your Red Dot Account Manager for details.
- Feb. 6-9: 2013 MACS Training Event & Trade Show, Caribe Royale Resort, Orlando. Join us at booth #323.

SERVICE TIPS

Heaters: Check the Ground

Before you pull that busted blower motor, make sure road grime, rust, paint, or some other obstruction isn't keeping it from getting the voltage it needs.

If the motor has a black ground wire, follow it from the motor to its terminus, looking for anything that might impede the connection. If the motor has no ground wire, then it uses the motor mount as its ground. Either way, if the mount's ground path is somehow interrupted by rust, paint, dirt, etc., then the

blower motor won't be grounded, either.

Use a multimeter to make sure you're getting full voltage to the motor. Once you know the voltage is adequate, then you can then look for worn brushes, dirty squirrel-cage fans, damaged fan blades, and other typical motor problems.

If you're still seeing voltage-drop, make sure the ground wire is the right gauge. Our Red Dot Wiring Pocket Guide (**RD-5-12560-0P**) shows the maximum wire length before 0.5 voltage drop occurs, as well as the voltage drop through various connectors.

Wire Size	Maximum Current In Amps													
	1	2	3	4	5	7.5	10	15	20	25	30	35	40	50
18	91	45	30	23	18	12	9	6	5					
16	116	58	39	29	23	16	12	8	6	5				
14	185	93	62	46	37	25	19	12	9	7	6	5		
12	294	147	98	74	59	39	29	20	15	12	10	8	7	6
10	455	227	152	114	91	61	45	30	23	18	15	13	11	9
8	714	357	238	179	143	95	71	48	36	29	24	20	18	14

ATO Fuse Color: Black Gray Violet Pink Tan Brown Red Blue Yellow White Green Blu/Gn Orange Red

Maximum wire length in feet (multiply by 0.3048 to convert to meters)

Position O.D.

Wire Diameter (MM)	Position O.D.
0.10	0.11
2.31	(2.7)
3.00	(3.0)
3.12	(3.4)
3.00	(3.6)
3.14	(3.6)
3.63	(4.1)
3.17	(3.9)
4.41	(5.0)
5.21	(5.8)

Voltage Drop Through Connectors*

TERMINAL	Current in Amps RESULTS BELOW in Millivolts DC									
	5	7.5	10	15	20	25	30	35	40	50
0.250" Blade	2	4	5	7	10	12	15	17	20	
630 Metri-Pack	5	7	10	15	20	25	30	35		
280 Metri-Pack	6	9	12	18	23	29	35			
Weather-Pack	9	14	18	27	36					
150 Metri-Pack	13	20	26	39						
100 Micro-Pack	19	29	38							
Deutsch Size 12	2	3	4	7	9	11				
Deutsch Size 16	4	6	8	13						
Deutsch Size 20	9	13								
Thermostat	61	70								
ISO Relay	46	54	62	79	95	111	128	144	161	
Butt Splice	1	2	3	4	5	6	7	8		
Ring Terminal	2	3	3	5	7	9	10	12	14	

* Millivolt drop through connector terminals/components @ 20°C. Estimate only - values may vary due to condition and age of terminal component and other ambient conditions. Consult manufacturer for specific information and usage limitations.



Get Section 609 Certified

Any technician who opens up mobile A/C systems must be certified in refrigerant recovery and recycling procedures according to Section 609 of the Clean Air Act. The EPA has nine regional offices to enforce the law and the penalties are stiff: up to \$32,500 per violation, per violating individual, per day.

It takes just one class to cover proper equipment use and service procedures, followed by a 25-question, multiple-



choice test. Section 609 certification is a one-time process—there's no renewal needed. Winter is a great time for training. If you want to expand the work your technicians can do, or you have customers whose technicians need training, talk to your Red Dot Account Manager about how we can help with Section 609 certification.

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All times are in the Pacific Time Zone