

Vendor's Offer
Form 201-B (RFP)
Return this Page with your Response

It is required that Offeror complete, sign and submit the original of this form to the City Procurement Office with the proposal response. An unsigned "Vendor's Offer", late proposal response and/or a materially incomplete response will be considered nonresponsive and rejected.

Offeror is to type or legibly write in ink all information required below.

Company Name: <u>HTE EQUIPMENT SERVICES</u>	
Company Mailing Address: <u>4010 S. 22ND ST.</u>	
City: <u>PHOENIX</u>	State: <u>AZ</u> Zip: <u>85040</u>
Contact Person: <u>CHRIS CIMINI</u>	Title: <u>SALES MANAGER</u>
Phone No.: <u>480510-1013</u>	FAX: <u>602-232-0600</u> E-mail: <u>CCIMINI@HE-EQUIPMENT.COM</u>
<u>Company Tax Information:</u>	
Arizona Transaction Privilege (Sales) Tax No.: <u>07-660639-6</u>	or
Arizona Use Tax No.: <u>980006225</u>	
Federal I.D. No.: <u>810553291</u>	
City & State Where Sales Tax is Paid: <u>PHOENIX, ARIZONA</u>	
If a Tempe based firm, provide Tempe Transaction Privilege (Sales) Tax No.: _____	

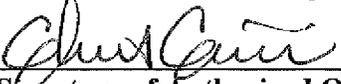
THIS PROPOSAL IS OFFERED BY

Name of Authorized Individual (TYPE OR PRINT IN INK) CHRIS CIMINI

Title of Authorized Individual (TYPE OR PRINT IN INK) SALES MANAGER

REQUIRED SIGNATURE OF AUTHORIZED OFFEROR (MUST SIGN IN INK)

By signing this Vendor's Offer, Offeror acknowledges acceptance of all terms and conditions contained herein and that prices offered were independently developed without consultation with any other Offeror or potential Offeror. In accordance with A.R.S. 35-393, et seq., the Offeror hereby certifies that it does not have scrutinized business operations in Iran or Sudan. Failure to sign and return this form with proposal response will be considered nonresponsive and rejected.


Signature of Authorized Offeror

3/11/11
Date

(H:/RFP 3-2008)

Specifications

Return this Section with your Response

The desired minimum specifications for a Regenerative Vacuum Type Street Sweeper are outlined below. Any omission from these specifications shall not relieve the contractor from the responsibility of furnishing an operations system complete with all necessary components, accessories, controls, technical advise and supervision for efficient operations.

All specifications are preferred unless noted otherwise. If your product does not at least meet the indicated minimum specifications, or you are offering an equivalent, you must indicate "No" and provide details about your offering in the exceptions column. The decision to accept or reject the vendor offered substitution is at the sole discretion of the City of Tempe.

Delivery will not be considered complete, and no invoice will be processed for payment, until all required manuals and training are complete.

I Cab and Chassis		Vendor Response		
Cab		Yes	No	Exception
1.	2 door conventional design – not less than 33,000 GVWR	OK		
a	Specify Manufacturer			INTERNATIONAL
b	Specify Model			4300M7
c	Indicate Warranty - chassis			24 MONTH UNLIMITED MILES STANDARD
d	Indicate Warranty – drive train			24 MONTH UNLIMITED MILES STANDARD
2.	Dual steering (factory installed) shall include right and left steering wheels, brake and throttle pedals, self cancelling turn signals controls, tilt adjustment, ignition switch, cruise control and hazard light controls. Both stations are to be fully operational driving positions and all operations shall be able to be carried out from either location	✓		NOTE: DUAL STEERING IS NOT INTERNATIONAL INSTALLED BY FONTAINE
3.	Factory installed power steering	✓		
4.	Low speed cruise control equipped	✓		
5.	Dual windshield wipers and washers	✓		
6.	Dual sun visors	✓		
7.	Factory installed air conditioning and heater/defroster.	✓		
a	Air Conditioner to be of sufficient size and rating for use in ambient temperatures of up to 120 degrees Fahrenheit. All repair components to be available locally.	✓		
b	Equipped with a fresh air filter	✓		
8.	All windows, excluding windshield, to be covered with the darkest legal high performance metalized film (complaint with local legal requirements).	✓		
9.	Seats – high back, cloth covered (both sides)	✓		
10.	Instruments – Fuel, voltmeter, oil pressure, air pressure, water temperature, tachometer, speedometer. Gauges, instrument panel and rocker switches to be illuminated for night time use – applicable to both right and left driving positions	✓		
a	Each gauge shall be independently wired and	✓		

		grounded. Units with "Smart Gauge" systems will not be accepted unless software, hardware and training is provided to allow the City the ability to reprogram and reset gauges.	✓		
	b	Additional gauges to include vehicle hours, sweeping hours and sweeping odometer – to be easily visible from both left and right driver positions while sitting in the driving position	✓		
11.		LED chassis lighting package incorporating solid mounts	✓		
12.		All wiring to be neatly loomed and protected from elements.	✓		
	a	Weather pack connectors shall be used at all connectors that might be subject to inclement weather.	✓		
	b	All areas where wiring passes through sheet metal and panel openings shall be grommeted.	✓		
13.		Radio – AM/FM/CD	✓		
14.		Color – manufacturer's standard white (Dupont Imron or equal)	✓		
			Vendor Response		
Chassis					
1.		GVRW – minimum 33,000 pounds	✓		
2.		Wheelbase, cab to axle and overhang shall all meet respective body manufacturer's requirements. It is the vendors' responsibility to design the unit and guarantee legal load limits and weight distribution using average weights under normal conditions.	✓		
3.		Curb to curb turning diameter will be scored as an evaluation criteria. Vendor is to specify the turning diameter of the completed unit as requested. Smaller turning diameters will score higher during the evaluation process	✓		
	a	State curb to curb turning diameter			42.5"
	b	State wheel cut for submitted unit			52"
	c	State wheelbase of submitted unit			152"
4.		Frame rails – high alloy steel, "C" channel, 80,000 psi yield strength, RBM of 1,000,000 or greater	✓		
5.		Heavy duty front bumper with frame mounted tow hoods	✓		
6.		Front axle – 12,000 pound minimum		✓	10,000 lbs
7.		Front suspension – tapered leaf with shock absorbers	✓		
8.		Rear axle – 21,000 pound minimum	✓		
9.		Rear suspension - air	✓		
	a	Specify Brand, Model and rating offered			HENDRICKSON AIR (HAS 230)
10.		Brakes – dual circuit anti-lock, air	✓		
	a	S cam actuators with automatic slack adjusters required	✓		
	b	12.0 CFM minimum compressor	✓		
	c	Air dryer with replaceable cartridge shall be included	✓		
	d	Air system to have air coupling or stem valve to allow pressurization of system from an outside	✓		

	source			
11.	Parking brake – air activated, spring loaded	✓		
12.	Gear ratio shall be selected to provide maximum fuel efficiently and be able to maintain correct sweeping speed and achieve a minimum of 55 mph highway speed	✓		
13.	Tires - radial tubeless with standard highway tread	✓		
a	Size – 11R22.5, 12 ply rating minimum	✓		
14.	Wheels – Steel disc, 10 hole hub-piloted Budd type	✓		
15.	Fuel tank capacity – 50 gallon minimum	✓		
a	Tank shall supply fuel to both vehicle and auxiliary engines (If equipped)	✓		
i	State capacity of tank			50 GAL.
16.	Back –up alarm equipped – Ecco 210 or equal	✓		
		Vendor Response		
Engine		Yes	No	Exception
1.	Emissions compliant electronically controlled, water cooled, 4-cycle, diesel engine – minimum 200 HP. All engines must be EPA compliant. Cummins ISB/ISC or International are preferred	✓		
a	State Manufacturer	INTERNATIONAL		
b	State Model	M7		
c	State Horsepower	220		
d	State Torque	560		
e	State year of manufacture	2012		
2.	Engine shall be capable of operating on B-20 bio-diesel without impacting engine performance or warranty	✓		
3.	Air Cleaner - dry type, dual element with restriction indicator.	✓		
a	Intake to be positioned to minimize introduction of dust from sweeping operation	✓		
4.	Oil Filter - full flow, spin on	✓		
5.	Cooling system must have the largest heavy-duty components available with coolant recovery system. Manufacturer must state that cooling system will keep engine at normal operating temperature in temperatures that can exceed 120 degrees Fahrenheit.	✓		
a	Indicate material used for coolant recovery tank			
b	Hoses (radiator, by-pass and heater) - silicone rubber	✓		
c	Hose clamps to be worm drive compatible with silicon rubber	✓		
6.	Engine supplied with high quality fuel filtering system to remove all impurities, including water, from the fuel with spin on filter	✓		
7.	Engine alarm and shutdown system for high water temperature and low oil pressure. System must be OEM approved.	✓		
8.	Alternator - 12 volt Delco HD 22 Si or 33Si series preferred - 120 amp minimum	✓		
a	State alternator manufacturer	LEELE-NEVILLE		
b	State model	SLHP2172VAH-BLUSH		

	c	State amperage	120		
9.		Batteries - minimum 2 ea 12 volt low, or maintenance free, 850 CCA each.	✓		
	a	Batteries shall supply power to both engines	✓		
10.		Cables professionally formed and routed with the shortest cable possible to reduce voltage drop and amp loss	✓		
11.		The exhaust system shall be vertical mount behind cab. Exhaust components must be properly supported and guarded to prevent accidental contact by either operator or service personnel.	✓		HORIZONTAL
Transmission			Vendor Response		
			Yes	No	Exception
1.		Allison electronic automatic – 2500 RDS, 5-speed	✓		
	a	Push button selector		✓	GEAR SHIFT
	b	Filter – spin-on, located conveniently for service	✓		
	c	Transmission oil to air cooler or oil to coolant water cooler	✓		
2.		Transmission must be supplied from the factory with Allison approved Transynd synthetic fluid	✓		
3.		Allison ETC 5-year extended warranty to be included	✓		
4.		State operating speeds	✓		
	a	Driving (max)	65		
	b	Sweeping (min)	1		
Training and Manuals (CD format acceptable) for both Cab and Chassis and Sweeper			Vendor Response		
			Yes	No	Exception
1.		Operator's manual	✓		
2.		Complete chassis parts book	✓		
3.		Complete engine, hydraulic and electrical parts book	✓		
4.		Complete shop/service manual	✓		
5.		Complete engine repair manual for both main engine and auxiliary engine (if equipped)	✓		
6.		Complete wiring manual for both main and auxiliary engine (if equipped)	✓		
7.		Complete hydraulic system manual including hydraulic schematics and wiring diagrams for hydraulic system	✓		
8.		On site factory authorized operator training for each vehicle delivered. Operator training shall be scheduled at the convenience of the City of Tempe personnel.	✓		
9.		Vendor familiarity training for maintenance and repair of the vehicle's sweeping, vacuum regeneration and hydraulic systems. Training must occur within 60 days of delivery.	✓		
10.		Factory authorized training for maintenance and repair of engine, chassis and transmission - for two (2) staff member for each unit ordered. The cost of training to be included in bid price and include travel and lodging if necessary. The City of Tempe reserves the right to schedule Factory Authorized training up to one (1) year after purchase of the unit	✓		
Miscellaneous			Vendor Response		
			Yes	No	Exception
1.		MSO supplied at time of delivery is required	✓		

2.	Level one inspection to be provided by vendor for each unit delivered is required .	✓		
3.	A minimum of 4 sets of keys shall be supplied at time of delivery	✓		
4.	Diagnostic software for any computer controlled system on engines, chassis, or sweeping system as well as cables, adaptors and any required updates during the entire contract period must be supplied. – indicate what software will be included below	✓		
a	Engine diagnostic software	✓		
b	Transmission diagnostic software	✓		
c	Anti-Lock Brake diagnostic software	✓		
d	Chassis diagnostic software	✓		
e	Other diagnostic software to be included - list below:			
5.	DOT approved 20# ABC fire extinguisher to be installed and mounted behind cab. Fire extinguisher shall be mounted in an unobstructed manner to provide easy access in an emergency. Curb side is the preferred side for placement.	X	✓	China SUBONLY / DOUBLE TOOTH

II. Sweeper Unit

General Information		Vendor Response		
		Yes	No	Exception
1.	Specify manufacturer	TYMCO		
2.	Specify model number of unit	500K		
3.	Year of manufacture	2011 / 2012		
4.	Indicate warranty for engine	3 YEAR / 3600 HOURS		
5.	Indicate warranty for blower and housing	1 YEAR STANDARD		
6.	Indicate warranty for other components	1 YEAR STANDARD		
7.	Indicate warranty for body	NEAR STANDARD		
8.	Unit must provide a 360 degree average dB rating of 75 or less at an unobstructed distance of 50 feet at normal operating specifications (this is to include vehicle and aux engines, blower, pump, brushes, etc all operating during test)	✓		
a	State dB rating of your unit under these conditions	75		
9.	Color – manufacturer’s standard white (Dupont Imron or equal) to match cab	✓		
Auxiliary Engine		Vendor Response		
		Yes	No	Exception
1.	Emissions compliant electronically controlled, water cooled, 4-cycle, diesel engine – minimum 75 HP.	✓		
a	State Manufacturer	JOHN DEERE		
b	State Model	4045T		
c	State Horsepower	115 HP		
2.	Engine shall be capable of operating on B-20 bio-diesel without impacting engine performance or warranty	✓		
3.	Air Cleaner - dry type, dual element with restriction indicator.	✓		
a	Intake to be positioned to minimize introduction	✓		

	of dust from sweeping operation	✓		
4.	Electronic throttle control	✓		
5.	Oil Filter - full flow, spin on	✓		
6.	Cooling system must have the largest heavy-duty components available with coolant recovery system. Manufacturer must state that cooling system will keep engine at normal operating temperature in temperatures that can exceed 120 degrees Fahrenheit.	✓		
a	Hoses - silicone rubber	✓		
b	Hose clamps to be worm drive compatible with silicon rubber	✓		
7.	Engine supplied with high quality fuel filtering system to remove all impurities, including water, from the fuel with spin on filter	✓		
8.	Engine alarm and shutdown system for high water temperature and low oil pressure. System must be OEM approved.	✓		
9.	Engine controls and gauges shall be mounted on the control console inside of cab.	✓		
		Vendor Response		
Blower and Housing		Yes	No	Exception
1.	Blower to be a fixed displacement of Heavy Duty construction computer balanced to insure smooth operation and minimize wear on bearings	✓		
a	What type of bearings are utilized (greaseable preferred)?			SEALED
b	Is blower equipped with a bolt in replaceable liner	✓		
i	Material utilized			RUBBER
2.	Housing to be constructed of durable material and shock mounted	✓		
a	Indicate material of construction			STEEL
b	Is housing lined?	✓		
i	What coating material will be utilized			RUBBER
3.	What is CFM rating for unit and at what RPM			20,000
a	What is the normal operating RPM for the unit			1500-2000 RPM
4.	Blower component should be replicable without the need to remove the entire blower/housing assembly from the vehicle	✓		
5.	Blower to have a minimum rated performance of negative 60 inches of water column at normal operating RPM	✓		NOTE: 60" IS A VACUUM SPEC. WE ARE 48" - REGEN
a	Is certification of the unit available and included by the Air Movement and Control Association that indicates unit meeting your stated information			
6.	In-cab vacuum gauge to be provided	✓	✓	Chin RPM GAUGE (ALSO) VACUUM SPEC
7.	Blower shall be inoperable during any phase of the dump cycle.	✓		
		Vendor Response		
Pick-up Head		Yes	No	Exception
1.	Head to be of all steel construction	✓		
2.	Equipped with adjustable drag shoes which are designed to follow road contours without damage	✓		

	a	Indicate material used for shoes	ALLOY STEEL AND CARBIDE		
3.		Head to be raised and lowered hydraulically from inside cab	✓		
4.		Head equipped with suspension system that allows proper contact with road and provides for movement in case of impact of an immovable object to avoid damage to the head assembly	✓		
5.		Blast orifice must be adjustable without removal of the head assembly	✓		
6.		Pressure and suction hoses to be appropriately sized and constructed of 3/8" thick heavy duty wire reinforced rubber	✓		
7.		Capable of operation both forward and reverse	✓		
8.		Is pickup head broom assisted	✓		
	a	If yes, complete the following:			
	i	Is operation of broom required		✓	CHINA (ON DEMAND)
	ii	Is broom extension hydraulically adjusted from inside cab		✓	
	iii	Is down pressure adjustable from inside cab		✓	
	iv	Rotation of broom must be hydraulically driven	✓		
	v	Size of broom	✓		12" X 79"
	vi	Cost of replacement broom			\$696.00
	vii	Raising of head shall turn off brush function		✓	YES CHINA
			Vendor Response		
Dust Separator and Hopper			Yes	No	Exception
1.		System designed to remove dust from the incoming air stream is to be provided	✓		
	a	Type of system employed	CYLINDRICAL, CENTRIFUGAL DUST SEPARATOR		
2.		Hopper to have a volumetric capacity of not less than 5 cubic yards	✓		
	a	State volumetric capacity	5 CUBIC YARDS		
3.		Hopper usable capacity shall not be less than 4 cubic yards	✓		
	a	State usable capacity	4 CUBIC YARDS		
	b	Material used for construction	STAINLESS STEEL		
	c	Hopper interior shall be coated with an anti-wear compound	✓		ABRASION PROTECTION NO SPRAY IN LINER
	i	Indicate material used for lining	RUBBER		
4.		Hopper shall be airtight through the use of rubber seals on all doors and openings	✓		
			Vendor Response		
Gutter Brooms			Yes	No	Exception
1.		Two -- one left hand and one right hand	✓		
2.		Steel wire with steel disc wearing edge	✓		
	a	State size of disc	43"		
3.		Constant speed, reversible, hydraulically driven, speed independent of vehicle	✓		NOT REVERSIBLE
4.		Free floating hydraulically operated with full sideways oscillation and adjustment, tilt to be adjustable by operator from the operator's station in the cab	✓		
5.		Lateral and vertical positioning of each broom by two		✓	ONE CYLINDER

	hydraulic cylinders		✓	
6.	Down pressure shall be automatically adjusted pressure sensing balance valve	✓		
7.	Gutter brooms shall be independently controlled by individual toggle switches in cab	✓		
8.	Both brooms shall have hydraulic tilt capability from inside the cab while in operation	✓		
9.	Each gutter broom shall have independent adjustment for pattern and wear compensation	✓		
10.	Broom shall have the capability of extending below the level of the street	✓		
11.	Broom shall have lateral flexibility to swing rearward when encountering the impact of an immovable object to avoid damage to the broom assembly	✓		
		Vendor Response		
Dust Control System		Yes	No	Exception
1.	Water tank of at least 250 gallons to be supplied constructed of rustproof materials	✓		
	a State size of tank	250 GALLON		
	b Material used for construction	POLY		
2.	Electric diaphragm pump shall provide water feed to spray nozzles	✓		
	a State minimum GPM and PSI	3.5 GPM 1,000 PSI		
	b Water pump is to automatically disengage when water supply is depleted	✓		
3.	Water system to be equipped with a cleanable filter located between tank and pump that is easily accessible by operator without tools	✓		
4.	Each water spray function to have its own independent on/off cab controlled valve	✓		
	a Spray system shall include nozzles, at a minimum, at the following locations:	✓		
	i Outside of pick-up head	✓		4
	ii Gutter brooms	✓		2
	iii Inside hopper	✓		
	iv Indicate other locations if applicable			
	b No part of water system shall be constructed of ferrous metal	✓		
5.	In-cab water level gauge to be included	✓		Chws
6.	Flush system for inside of hopper supplied by hydrant connection	✓		
7.	A 2-1/2" diameter 25' long hydrant hose with Tempe hydrant threads and a connector that swivels at the end for ease of installation to hydrant, Also, an anti-siphon device and strainer will be installed on the unit. Hose storage rack to be provided and located on the curb side of vehicle	✓		
		Vendor Response		
Hopper Dump/Lift Mechanism		Yes	No	Exception
1.	Unit to be equipped with a hopper lift and tilt	✓		

	mechanism to allow dumping into transport containers	✓		
	a Hopper shall dump to curb side of vehicle	✓		
	b Lift to be accomplished through the use of a scissor lift mechanism	✓		
	c Dump height to be variable from approximately 36" to 120"	✓		30" TO 132"
	i State usable range for your unit			30" TO 132"
	d Dumping to be accomplished by hydraulically tilting the hopper a minimum of 45 degrees	✓		
2.	Safety props (storable on the unit) are to be provided for use during service work and shall be capable of safely supporting the full payload and pull-down force of the lift assembly	✓		
3.	Sweeper shall have left and right stabilizers which automatically deploy before the scissor mechanism can be operated and cannot be retracted until the hopper is in the full down position	✓		
	a Are stabilizers independently adjustable from inside cab which allows use on uneven surfaces	✓		
	b Warning system shall be included to notify operator that stabilizers are deployed	✓		
4.	Dump door to be hydraulically opened, closed and locked.	✓		
5.	All functions must be controllable from inside the cab	✓		
Hydraulic System		Vendor Response		
		Yes	No	Exception
1.	Hydraulic system shall be designed to meet the respective manufacturer's requirements. Vendor is to guarantee system design will provide a fully functional unit.	✓		
	a Indicate type and size of pump			VARIABLE DISPLACEMENT PISTON PUMP
	b Replacement cost of pump			\$16,000 LIST - PUMP IS REBUILD ABLE
	c Are pump and repair parts available locally	✓		
2.	Special consideration shall be given to insure that system is designed to operate efficiently in ambient temperatures of up to 120 degrees Fahrenheit.	✓		
3.	System is to include a reservoir with in-cab indicators for fluid level and temperature		✓	RESTRICTION INDICATOR
	a State size of reservoir			30 GAL
4.	System to incorporate a suction strainer and replaceable 10 micron return filter	✓		
5.	Thermostatically controlled, electric powered, oil to air cooler to be provided	✓		
Operating Controls		Vendor Response		
		Yes	No	Exception
1.	All sweeping functions to be controlled by center mounted control box with pivoting/height control	✓		
2.	Start/Stop master switches to control sweep operation including: raise & lower brooms, start & stop motor, start & stop dust suppression	✓		
3.	All electrical controls, relays, circuit boards, fuses, etc. to be located in cab control box	✓		
4.	Control box to be easily serviced with hinged cover	✓		

	and quick disconnect electrical plugs	✓		
a	All wiring to be neatly loomed and protected from elements.	✓		
b	Weather pack connectors shall be used at all connectors that might be subject to inclement weather.	✓		
c	All areas where wiring passes through sheet metal and panel openings shall be grommeted.	✓		
		Vendor Response		
Lighting		Yes	No	Exception
1.	All lighting shall be DOT approved (LED) and meet DOT safety requirements including combination stop and tail lights, backup lights, adjustable side broom and pick-up spotlights, clearance and running lights, front parking and signal lights, four way flashers, rear mounted spot lights, side mounted spotlights	✓		
2.	Four way flasher system mounted separately from the driving light system	✓		
3.	Arrowboard – Whelen model TA-1652L or approved equal with controls mounted in cab with easy access from either operator position.	✓		LED WHELEN TA1652L
4.	Hopper mounted, amber, high power (2.3 million candlepower) Strobe, 60 flashes per minute. Strobe shall have a protective guard to prevent impact damage	✓		
5.	Two work lights mounted on the hopper to illuminate the dump area	✓		
6.	Two work lights mounted on the rear of unit	✓		
7.	Two flashing amber lights, LED, mounted on the rear of the hopper facing rearward to be seen by traffic approaching unit from the rear.	✓		

Proposal Questionnaire
Return this Section with your Response

Bidder shall submit answers to the following questions. Responses will be utilized in determination of contract award. The City of Tempe may consider other information, whether or not specifically provided by the bidder, in response to this RFP.

1. Provide the address of your local facility which will be available to provide repair services and parts.

HE EQUIPMENT SERVICES,
4010 S. 27ND ST PHOENIX, AZ. 85040

2. Describe your company and its history.

SEE ATTACHED

3. Please provide contact information for the primary account representative and a backup contact for the City of Tempe – name, phone, cell phone and e-mail information.

CHRIS CIMINI SALES MANAGER
480-510-1013 CCIMINI@HE-EQUIPMENT.COM

4. Can you meet the delivery schedule of June 30, 2011 as requested by the City of Tempe?

Yes No *Shut* WE HAVE TO HAVE AN ORDER (PO) BY
MARCH 25TH

If you answer Yes and are not able to deliver complete vehicle on schedules, liquidated damages will be assessed if grant funding is lost because of missed deadline.

OK. NEED AN ORDER BY MARCH 25TH 2011

5. Do you have a unit available for evaluation by the City?

Yes No WE ALREADY DEMOED
WE CAN DO IT AGAIN IF NEEDED

6. Do you agree to the Terms and Conditions of this RFP?

YES

7. List three (3) governmental or large corporate references for which you currently provide similar products.

Firm

Contact

Phone

SEE ATTACHED.

Life Cycle Costing
Return this Section with your Response

Assumptions:

- 8 year replacement cycle
- Usage of 30 hours per week
- Fuel cost to be \$3.00 per gallon

Should repair costs or scheduled maintenance costs exceed the guaranteed amounts, the vendor will be billed for any differences.

The City reserves the right to utilize or reject the guaranteed buy back option.

1	Outright Purchase Price		
2	Estimated Fuel Cost	+	\$
3	Guaranteed Repair Expenses	+	\$
4	Guaranteed Scheduled Maintenance Costs	+	\$
5	Guaranteed Resale Value	-	\$
6	Life Cycle Cost	=	\$

Calvin
\$197,900.00 (EA) PLUS TAX
\$ PLEASE SEE OPTIONS PAGE.

ONE HUNDRED NINETY SEVEN THOUSAND NINE HUNDRED⁰⁰/100



(800) 258-9626
Info@tymco.com

P.O. Box 2368
Waco, TX 76703-2368

[Home](#) > [Owners](#) > [Training](#)

Superior Training from TYMCO



We want you to understand the Regenerative Air System and your TYMCO sweeper completely, so you can get optimal performance from your equipment investment. That's why, for more than twenty years, we've offered two-day scheduled service schools at our facility in Waco, Texas. Managers, owners, operators and mechanics get hands-on training and answers to specific questions. Enrollment levels are kept low, so you and your team will get personal attention as well as the opportunity to learn from the experiences of other attendees through the interaction of the class.

When your operators and mechanics are thoroughly trained and knowledgeable about the TYMCO sweeper, you get better performance and a lower cost per operating hour.

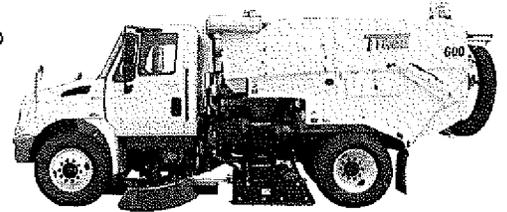
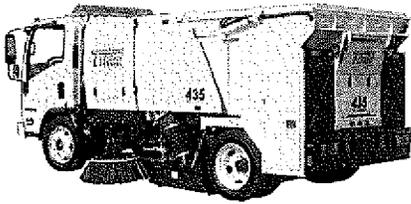
- TYMCO offers full two-day schools
- Choose from over 30 schools scheduled per year
- Yearly class schedules and class agendas are available
- Learn through demonstrations on an operational sweeper
- Special schools arranged for large groups
- Register to attend on our web site
-

Specifically designed for training, our 3500 square foot, temperature controlled facility provides ample space for demonstrations on an operational sweeper and systems components. We also provide daily ground transportation from the hotel to our training facility, and lunch is on us.

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P.O. Box 2368 • Waco, TX 76703-2368 • 800-258-9626 • 254-799-5546
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2011 Service School Schedule

January						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

4 - 5
11 - 12
18 - 19

January

Model 600
Model 210 & 435
Model 600

12 - 13
19 - 20
26 - 28

July

Model 600
Model 210 & 435
Model 600 & DST-6*

July						
S	M	T	W	T	F	S
						1 2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

February						
S	M	T	W	T	F	S
						1 2 3 4 5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

1 - 2
15 - 17
22 - 23

February

Model 500x
Model 210 - 435 & DST-4*
Model 600

2 - 3
9 - 10
16 - 18

August

Model 600
Model 500x
Model 210 - 435 & DST-4*

August						
S	M	T	W	T	F	S
						1 2 3 4 5 6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

March						
S	M	T	W	T	F	S
						1 2 3 4 5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

1 - 3
15 - 16
22 - 23

March

Model 600 & DST-6*
Model 210 & 435
Model 600

13 - 14
20 - 21
27 - 28

September

Model 600
Model 210 & 435
Model 600

September						
S	M	T	W	T	F	S
						1 2 3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

April						
S	M	T	W	T	F	S
						1 2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

5 - 6
12 - 13

April

Model 600
Model 210 & 435

4 - 5
11 - 12
18 - 20

October

Model 600
Model 210 & 435
Model 600 & DST-6*

October						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

May						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

3 - 4
10 - 11
17 - 19

May

Model 600
Model 500x
Model 600 & DST-6*

1 - 2
8 - 10

November

Model 500x
Model 210 - 435 & DST-4*

November						
S	M	T	W	T	F	S
						1 2 3 4 5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

June						
S	M	T	W	T	F	S
						1 2 3 4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

7 - 8
14 - 16
21 - 22

June

Model 600
Model 210 - 435 & DST-4*
Model 600

6 - 7
13 - 14

December

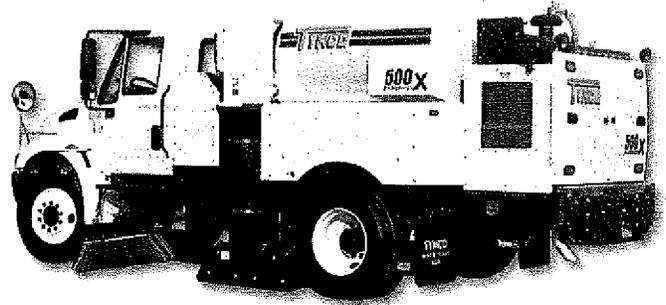
Model 210 & 435
Model 600

December						
S	M	T	W	T	F	S
						1 2 3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

The capacity for all classes is approximately 15 people.

*All DST-4 and DST-6 classes are held on the Thursday following the regular service school classes.

For more information, please contact David Zajicek at 800-258-9626 or visit our web site at www.tymco.com to register online.



GENERAL SPECIFICATIONS/ MODEL 500X™ HIGH SIDE DUMP REGENERATIVE AIR SWEEPER®

SWEEPER AUXILIARY ENGINE, Electronic Control, Turbo Diesel

Make John Deere, 4045T, 4 cyl. (Tier 2)
Displacement 276 cubic inches (4.5 L.)
Horsepower 115 @ 2,500 rpm (86 kW)
Net torque 291 ft/lbs @ 1400 rpm (394 Nm)
Air cleaner Two stage, radial seal with safety element
Oil Filter, spln on Full flow

BLOWER, Rubber Lined

Aluminum alloy high volume open face turbine
Purpose creates blast and suction
Bearings (2) sealed for life, self aligning
Housing Isolation mounted
with abrasion resistant, replaceable liner
Housing seal Heavy rubber section,
non-wiping, spring actuated Tilt-N-Seal™ design
Drive Fixed displacement
heavy duty hydraulic motor

DUST SEPARATOR

Type Cylindrical, cyclonic, multipass,
centrifugal separation
Size 28" x 48"
Location Inside hopper
Particulate removal Through
skimmer slot into hopper
Housing Abrasion resistant,
replaceable liner
Inspection Self opening,
self emptying when hopper fills

HOPPER, Stainless Steel

Volumetric Capacity 5.7 cubic yards (4.3m³)
Useable Capacity 4.0 cubic yards (3.06m³)
Construction Welded non-magnetic stainless steel
plate with integral stiffeners
Floor dump angle 50°
Dump door opening 68" x 57"
(158 cm x 129 cm)
Dump door Self locking
Chute 72" x 48"
stainless steel lined
Chute reach 22" without side shift
Dumping direction Right side
Lifting method Two stage scissor lift,
dual hydraulic cylinders with integral holding valves
Lift capacity 10,000 lbs
Dump height Variable
Minimum 2' from bottom of chute to ground
Maximum 11' from bottom of chute to ground
Hopper screen 2 piece stainless steel screen
with access for cleaning top side
Hopper drain system

BROOM ASSIST PICK-UP HEAD (BAH®)

Function Air blast and suction
chamber with broom assist
Width 87" (2210 mm)
Head area 3567.0 square inches (2.3m²)
Broom 12" x 79"
Location: Enclosed in rear of pick-up head
Suspension 4 springs 2 drag links
Suction hose 12" diameter (305 mm)
Pressure hose 14" diameter (356 mm)
Skids (DUO SKID®) Double wide, long-life carbide
Pressure bleeder Integral for
leaf/light material pick-up.

GUTTER BROOMS, Dual Patented

Standard equipment, includes floodlights and parabolic mirrors
Drive Variable speed
non-reversible hydraulic motor
Adjustment Adjustable for down
pressure, pattern and wear
Down pressure Automatically
adjusts to requirement
Flexibility All directions, integral
anti-damage "swing away" relief valve
Brooms 43" dia. (1.1 m) steel wire,
vertical diggers
Hydraulic tilt Left & Right
gutter brooms adjust for curb depth

HYDRAULIC SYSTEM

Dual hydraulic pumps Sweeper pump
operates gutter brooms, pick-up head (BAH®), stabilizers,
hopper lift, hopper dump, and hopper door. Blower pump
hydrostatically drives blower
Drive Direct drive from
auxiliary engine
Blower pump Heavy duty variable
displacement piston pump
Sweeper pump Pressure
compensated piston pump
Blower pump flow 45 GPM (170 LPM)
Sweeper pump flow 16 GPM (61 LPM)
Reservoir 30 Gal (110 L)
dual mesh strainers
Safety features Low oil shut down
Filters(2) (1) 10 micron spin-on, in-line return,
(1) cartridge, charge loop
Vent Filter (1) 10 micron spin-on
Cooler Air to Oil
with thermostatically controlled electric fan

DUST CONTROL SYSTEM

System of water spray nozzles for airborne dust
suppression
Pump Electric diaphragm
Reservoir Stainless Steel or Polyethylene 250 gallon
(946 L) with hydrant fill hose
Filter 80 mesh stainless steel, in-line
Low water shut-off Safety shut-off
with low water warning light in cab
Spray nozzles:
Pick-up head 4
Gutter brooms (each) 2
Hopper inlet 1

CONTROLS

Inside cab: (lighted) pick-up head, left and right hand gutter
broom tilt, gutter broom, ignition, blower speed control,
low water warning system (dust control), all safety lights,
dump controls, pressure bleeder, LCD multi-function
display, which includes re-settable and non-re-settable
hour meters for auxiliary engine; left hand, right hand
and BAH brooms; pick-up head and blower.

Steering: Dual

STANDARD EQUIPMENT

Auxiliary engine-diesel, fuel/water separator, automatic
shutdown system, auxiliary hydraulic system, broom
assist pick-up head (BAH®), dual steering, DUO-
SKID®, dust control system, gutter brooms, right and
left, includes floodlights and parabolic mirrors, gutter
broom tilt adjuster-left and right, pressure bleeder,
stainless steel hopper, severe weather wiring package,
tymco decals/stripes, water fill hose and storage area,
storage compartment, hopper load indicator, hopper
drain system

STANDARD SAFETY EQUIPMENT

Solid state proximity switches, right and left side stabilizers
(automatically engage when lifting hopper), blower
actuation interlock, minimum dump interlock, stabilizer
down warning system, alternating LED rear flashers,
front mounted amber strobe light, alternating/flashing
warning lights, back-up alarm, hopper load indicator,
scissor lift safety props.

OPTIONAL EQUIPMENT

Air Purge
Auto Sweep Interrupt (ASI)
Auxiliary Hand Hose
DCVA
Drop down gutter broom
Engine block heater
High output water system
Hydrant wrench
Hi/low pressure washdown system with CAT water pump
Linear actuator (Pressure bleeder)
Reverse Pick-Up Head System
Pick-up head front curtain lifter
Sweeper Deluge System
Sweeper odometer

Color (other than TYMCO standard white)

Special options are available for your individual requirements.
Contact your local dealer or TYMCO

CAB/CHASSIS

MODEL International 4200
GVW 33,000 lbs. (14,982 kg)
Axle capacity, rear 23,000 lbs. (10,442 kg)
Axle capacity, front 10,000 lbs. (4,540 kg)
Frame 80,000 psi
Engine VT365 (6L) diesel engine,
200 HP @ 2600 RPM, 520 lb-ft torque @ 1400 RPM
Transmission Allison 2500 RDS-P
Alternator 110 amp
Batteries 12 v dual 1850 CCA
Wheelbase 152" (3861 mm)
Fuel tank 50 gallons (189 L)
shared with sweeper
Tires (2-front, 4-rear)
Tubeless radial 11 R x 22.5, 14 ply
Steering Full power
Brakes Full air with
13.2 CFM air compressor
Rear suspension Hendrickson™ air suspension
Instruments & lights Full package
as required

GENERAL SWEEPING WIDTH

Pick-up head only 87" (2210 mm)
With 1 gutter broom 110" (2794 mm)
With 2 gutter brooms up to 142" (3607 mm)

OVERALL DIMENSIONS

(Approximate)
Height 112" (2845 mm)
Width 96" (2438 mm)
*Empty weight 21,000 lbs. (9,534 kg)
Length 280" (7112 mm)
Dump clearance height 132" (11') (3353 mm)
Overall height dumping 262" (21'.8") (6655 mm)

*Weight will vary with equipment

www.tymco.com
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