Six Filtomat filters, offered by Global, range in inlet diameter from 3 to 12 inches and in flow rate from 110 to 2,630 gallons per minute. All operate at 30 to 150 psi and are self-cleaning.

Each model comprises a two-compartment filtering system. In the upper compartment, water passes through a perforated plastic cylinder that acts as a

Custom-made binder easily holds entire year's copies of WTT magazine. Green binder with gold embossed logo protects your magazines and gives your library a neat appearance. Magazines can be inserted as they are received. Annual index in December issue makes it easy to find information you need quickly . . . Send check or money order to:

WEEDS TRESS & TURF
Book Sales
One East First Street, Duluth, MN. 55802
(Add $1.25 per Binder Shipping Chg.) Allow 6-8 Weeks Delivery.

- Maneuverability with "feather touch" control puts you in full command.
- Dual hydrostatic power provides "one pass" mowing eliminating finish trim time.
- Out front mower deck for full view mowing.
- PTO drive to mower deck eliminates belts, simplifies change of accessories.
- Three h.p. sizes 12-16-18 to match your mowing needs, engineered for three mowing widths 44"-52"-61".
- Attachments to provide year round versatility.
- Vacuum Grasscatcher (available in two styles).
- Dozer Blade • Sweeper • Snowthrower

Write 122 on reader service card
conditioning." Because of the Venturi effect, as the funnel narrows, wind velocity increases, making the arrangement more effective. A large scoop that contracts in breadth can increase the velocity of prevailing winds that are light but steady and would otherwise be ineffectual. If the narrowest end of the funnel is covered by a breezeway or a tree with a high canopy, the effect improves. Also, since cooler winds flow downhill, dense evergreens planted on a slope may trap and hold cold air, creating cool spaces, upwind of the barrier.

Effective wind controls demand careful analysis of the direction and strength of the prevailing winds at different seasons.

To learn the direction of all air movements, tie strips of cloth on several posts, five or six feet tall. Anchor them securely at all compass points, plus any suspected odd wind pockets. Study the wind movements for at least several weeks each season and chart them. This information will guide landscaping plans. In more northern areas, wind patterns around buildings may also be traced by watching the way snow is deposited. Make your first observation after a fresh snow on a calm day. Later observe the shift in snow patterns when the wind has blown channels and paths. Note where the ground is bare, and where the snow has piled in drifts. A third method for determining wind patterns is to study smoke released from a chimney, campfire, or barbecue.

Before planting trees or shrubs to control wind, check whether your selected species can withstand the region's strongest storm forces. Trees may fall onto buildings, causing injury or damage. Keep all trees pruned. Deadwood and weak or unbalanced branches are vulnerable to strong winds. It is prudent to plant soft-wooded trees a safe distance from outdoor living areas and buildings if possible. Generally, the fast-growing trees such as pine (Pinus species) and larch (Larix species) have soft woods and are weaker. Silver maples (Acer saccharinum), poplars (Populus species), willows (Salix species), and black cottonwoods (Populus trichocarpa) are especially susceptible to breakage.
Budget stretcher.

New equipment is great. But today, tight budgets call for getting the longest life from all your equipment. That's where heavy duty Kawasaki engines can help you stretch your budget.

Specify Kawasaki engines on new equipment—or to replace worn out power plants on equipment you own. You get easy starting engines that run smooth. They've got the torque and horsepower to give new life to old equipment. They've got solid value features such as cast iron cylinder walls, stellite exhaust valve faces, heavy duty shafts and ball bearings on both ends of crankshaft and camshaft, just to name a few. And they run on regular or unleaded fuel.

Look into stretching your budget with reliable, durable replacement engines from Kawasaki. 4 cycle from 2.4 to 20 hp. 2 cycle available. Parts and service available through the Kawasaki distributor-dealer network. Get all the facts for yourself. Send for details today.

The Power to turn People on.

Kawasaki
650 Valley Park Drive, Shakopee, MN 55379
Phone: (612) 445-6060
Write 132 on reader service card
WE REACH THE PEOPLE
YOU NEED TO REACH!

Place a recruitment ad in any of these HARCOURT BRACE
JOVANOVICH PUBLICATIONS - and you know your ad dollar
is wisely spent.

HBJ PUBLICATIONS does a better job of reaching those who
count (your potential employees) than any other business pub-
lisher.

<table>
<thead>
<tr>
<th>Magazine</th>
<th>Circulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body Fashions/Intimate Apparel</td>
<td>10549</td>
</tr>
<tr>
<td>Dental Laboratory Review</td>
<td>17184</td>
</tr>
<tr>
<td>Dental Management</td>
<td>96222</td>
</tr>
<tr>
<td>Drug &amp; Cosmetic Industry</td>
<td>7500</td>
</tr>
<tr>
<td>Electronic Technician/Dealer</td>
<td>49096</td>
</tr>
<tr>
<td>Fast Service</td>
<td>50537</td>
</tr>
<tr>
<td>Flooring</td>
<td>22000</td>
</tr>
<tr>
<td>Food Management</td>
<td>49863</td>
</tr>
<tr>
<td>Hearing Instruments</td>
<td>16592</td>
</tr>
<tr>
<td>Home &amp; Auto</td>
<td>22303</td>
</tr>
<tr>
<td>Hotel &amp; Motel Management</td>
<td>36023</td>
</tr>
<tr>
<td>Housewares</td>
<td>12800</td>
</tr>
<tr>
<td>LP/Gas</td>
<td>13758</td>
</tr>
<tr>
<td>Lawn Care Industry</td>
<td>12648</td>
</tr>
<tr>
<td>Neurology</td>
<td>12032</td>
</tr>
<tr>
<td>Paper Sales</td>
<td>12200</td>
</tr>
<tr>
<td>Pest Control</td>
<td>14498</td>
</tr>
<tr>
<td>Professional Remodeling</td>
<td>32995</td>
</tr>
<tr>
<td>Quick Frozen Foods</td>
<td>20750</td>
</tr>
<tr>
<td>Rent All</td>
<td>11139</td>
</tr>
<tr>
<td>Roofing/Siding/Insulation</td>
<td>18394</td>
</tr>
<tr>
<td>Snack Food</td>
<td>9200</td>
</tr>
<tr>
<td>Toys, Hobbies &amp; Crafts</td>
<td>13607</td>
</tr>
<tr>
<td>Weeds, Trees &amp; Turf</td>
<td>42677</td>
</tr>
</tbody>
</table>

Don't forget that classified advertising works just as effectively
in locating employees as it does if you are looking for a position,
have a line, machinery or a business to sell, are seeking repre-
sentatives or wish to buy a specific item. Let it go to work for you!

HBJ PUBLICATIONS -
COUNT ON US TO REACH
THOSE WHO COUNT!

Harcourt Brace Jovanovich Publications
One East First Street
Duluth, Minnesota 55802

Call Dawn Anderson at 218-727-8511

Products from page 91

Portable space heater model 230 from
the Hotsy Corporation, circulates 2,500
 cubic feet of heated air every minute.
Wide-angle, squirrel-cage blower pro-

duces a warm atmosphere in subzero
conditions. The model, which gener-
ates 230,000 BTUs, uses ordinary kero-
sene or home-heating fuel oil and plugs
into 110-volt power outlets. UL ap-
proved, the space heater has burner
and blower switches and an adjustable,
automatic thermostat.

Write No. 705 on reader service card

Bermuda grass planter puts down
roots, sprigs, rhizomes, or cuttings close
to walls, curbs, and buildings. This
Bermuda King model plants a 30-inch

Continues on page 96

Write 118 on reader service card

94 WEEDS, TREES & TURF/FEBRUARY 1981
Perfect Partners
IBDU and Sulfur Coated Urea

A new concept in slow release fertilizers to give you high performance at an economical cost.

Now you can get all the performance of a slow release fertilizer at a cost lower than most other professional fertilizer products.

New IBDU/SCU™ mixes combine three nitrogen sources—IBDU, Sulfur Coated Urea and Urea—to give your turf short, intermediate and long nitrogen release. This three-stage release results in a constant, even rate of turf feeding that lasts for up to 90 days.

Yet the price of IBDU/SCU fertilizers is less than you would expect to pay.

A First for Turf

New IBDU/SCU fertilizer mixes can provide your turf a combination of features never before available in a single fertilizer. It gives your turf all the benefits of IBDU, the highest performance slow release nitrogen available, with the proven benefits of a high quality prilled Sulfur Coated Urea. Plus, there's water soluble urea to get your turf off to a fast, green start. IBDU/SCU fertilizers are available in a variety of complete mixes, custom formulated to regional turf requirements.

See your local distributor or PAR EX representative about the new IBDU/SCU fertilizer mixes. They just might be the perfect partner for your fertilizer budget.

Estech General Chemicals Corporation, Professional Products Division, P.O. Box 1996 Winter Haven, FL 33880

*Registration Pending
wide swath and packs plantings firmly in one operation. The machine will also feed, separate, and plant sod. It is compact, maneuverable, and easily trailered from job to job.

Write No. 706 on reader service card

Soil Conservur from Bush Hog prepares seedbeds with a combination of disc blades, field cultivator shanks, and spike mulcher teeth. By applying and mixing chemicals in one pass, it eliminates two or more trips over the field. Available in two rigid and three wing models, the machine includes a flip-over hitch with a clevis on one end and a pintle hitch on the other; hand ratchet level adjustment; two spring cushioned front disc gangs set at a 10-degree angle; and 18-inch disc blades with 7½-inch spacing.

A 40-inch space between disc blades and field cultivator shanks allows flexibility in applying chemicals. No dirt shields are required. Shanks mix chemicals with soil and are equipped with a shank holder for ease of assembly, lighter weight, and durability.

Write No. 707 on reader service card

The digital Shigometer, supplied by the Osmose Wood Preserving Company of America, provides an accurate means of detecting discoloration and decay in trees. With a little training, personnel can quickly determine the exact amount of decay present. In addition, trees can be rapidly indexed for growth rate.

The instrument works by measuring the resistance of wood to a pulsed electric current. As wood decays, its electrical resistance decreases so when the probe's tip contacts decayed wood, readings change dramatically. The Shigometer weighs less than two pounds, making it convenient for checking remote timber stands.

Write No. 708 on reader service card

Continues on page 96
ORTHENE—INSECT PROTECTION AT ITS BEST.

ORTHENE Tree & Ornamental Spray is a giant step forward in protection. It kills a wide range of insects, on contact and with a lasting residual action. In fact, it’s probably the only insecticide you need.

Here are some of the insects it kills: aphids, bagworms, birch leafminer, tent caterpillar, Douglas Fir tussock moth larvae, gypsy moth larvae, webworms, scales, California oakworm, spring and fall cankerworms, Nantucket pine tip moth larvae, and adult root weevil.

NEW FROM ORTHO
A companion product from ORTHO is ORTHOMITE™ Ornamental Miticide. It’s the perfect solution for mite problems on flowers and ornamentals.

AVOID ACCIDENTS:
For safety, read the entire label including precautionary statements. Use all chemicals only as directed.

Please send me more information on ORTHENE.
Name ____________________________
Company ____________________________
Street Address ____________________________
City __________________ State ______ Zip ______
Mail to: R. G. Gras, Chevron Chemical Company, 375 Market Street, San Francisco, California 94105
Equipped with Hi-Ranger chip boxes, Hustler II series 4FI and Linesman II Series 5FI Hi-Ranger aerial manlifts suit trimming and clearance work by utilities, tree service contractors, and municipalities. Box sizes of 7 1/2, 9, and 12 cubic yards provides versatility. Boxes feature short, flatbed sections that extend under tower pedestals, hinged tailgates, hydraulic dump, lighting and reflective equipment to comply with government codes. Mobile Aerial Towers makes the Hustler II Series to extend 45 feet and the Linesman II Series to extend to 57 feet.

Write No. 709 on reader service card

ESI-ATOR, a biocatalytic ferment made by Environmental Stabilizers International, improves growth on hardpan, compacted, and clay soils. It opens and aerates the soil, provides better penetration and retention of moisture, and activates fertilizer, thereby facilitating new growth and revitalizing older vegetation. The conditioner can be used on lawns which have been planted in difficult soil or on golf courses and city parks.

Write No. 710 on reader service card

The G-20 utility tractor features a broad power range, hydrostatic steering, and fuel economy. A 152.7 cubic inch diesel engine on this Jacobsen tractor produces 45 hp. at 2250 rpm and 119 foot pounds torque at 1300 rpm. Operators can easily match capacity to work with its six-speed (plus reverse) transmission. Power range for the G-20’s PTO is 30 to 42 hp. at 2250 rpm. Flotation tires roll over moist areas with little turf damage or loss of traction. Operator controls include a tachometer.
and hourmeter; fuel, ammeter, oil pressure, and engine temperature gauges; and safety starter switch.

Write No. 711 on reader service card

**Mini-mixer** from Bradley will mix a 90-pound bag of cement or mortar with water in 90 seconds. The portable mixer is hand-powered and has three heavy-gauge, removable blades and a two-position steel stand. It will also mix paint, seeds, fertilizer, potting soil, insecticides, stucco, mulch, feeds, and chemicals.

Write No. 713 on reader service card

---

### ADVERTISERS

- **Adelphi Kentucky Bluegrass** .......................... 61
- **Andersons, The** ........................................ 70
- **Boots Hercules Agrochemicals Co.** ...................... 78
- **Brouwer Turf Equipment Ltd.** .......................... 55
- **Bunton Co.** ............................................. 73
- **Bush Hog** .................................................. 85
- **Chevrolet Motors** ......................................... 20
- **Chevron Chemical Co.** ................................... 97
- **Creative Sales, Inc.** ..................................... 92
- **Cushman** .................................................. 11
- **Deere, John** ............................................... 66
- **Diamond Shamrock/AG Chemicals** ......................... 4-5
- **Ditch Witch Equipment** .................................... 98-99
- **Dow Chemical Co.** ....................................... 52-53
- **Elanco Products Co.** ..................................... 46, 72
- **Estech General Chemicals Corp.** ......................... 95
- **E-Z-Go Div. of Textron** ................................... 90
- **Finn Equipment Co.** ...................................... 35
- **Grasshopper Co., The** ................................... 49
- **Green Thumb Lawn Service** ................................ 64
- **Ground Hog, Inc.** ........................................ 94
- **Hahn, Inc.** ............................................... 92
- **Hoffco, Inc.** ............................................... 40
- **Hypro, Div. of Lear Siegler, Inc.** ......................... 89
- **Jacklin Seed Co.** ........................................ 7, 37
- **Johansen, Div. of Textron, Inc.** ......................... 103
- **Kawasaki** ................................................ 93
- **F. D. Kees Manufacturing Co.** ........................... 69
- **Kubota Tractor Corp.** .................................... 86-87
- **Claude Laval Corp.** ...................................... 43
- **Lofts Pedigreed Seed, Inc.** ............................... 68, 104
- **Master Manufacturing** .................................... 89
- **Micron Corp.** ............................................ 76
- **Mitsubishi Agricultural** ................................... 74
- **Monsanto Co.** ............................................ 24
- **Morbark Industries, Inc.** ................................ 83
- **Mott Corp.** ............................................... 102
- **MTD Products** ........................................... 81
- **Otterblind** ............................................... 58
- **PBI/Gordon Corp.** ....................................... 62-63
- **Pennfine Perennial Ryegrass** ............................ 75, 82, 100
- **Pickseed West, Inc.** .................................... 33
- **Rainbird** ................................................ 2
- **Rhone-Poulenc, Inc.** .................................... 8-9, 41, 80
- **Ryan Turf-Care Equipment** ............................... 50
- **Safety Test, Inc.** ........................................ 65
- **Snowco** ................................................... 36
- **Spyder Sales, Inc.** ...................................... 96
- **Stihl, Inc.** ............................................... 57
- **Tee-2-Green Corp.** ...................................... 101
- **Telco Industries** .......................................... 31
- **3M Co.** ................................................... 58-59
- **Toro, Irrigation Div.** ..................................... 77
- **Toro** ........................................................ 28-29
- **Tuflex Manufacturing Co.** ................................ 92
- **Turf Seed, Inc.** .......................................... 13, 84
- **Union Carbide** .......................................... 14-15
- **Vandermolen** ............................................. 82
- **Vans Pines** ............................................... 92
- **Velcal Chemical Corp.** .................................... 60
- **Vermeer** ................................................... 47
- **Warren’s Turf Nursery, Inc.** ............................. 71

---

**Drought Defense...**

**A 2-Day Operation.**

Ditch Witch equipment and our free Lawn Sprinkler System brochure can be your answer to providing drought defense in only two days* without digging trenches.

Design and planning, line size and sprinkler head capacities, and step by step installation instructions... all included in one easy-to-follow guideline.

Tips within this comprehensive set of instructions were supplied by some of the country’s top sprinkler system specialists... and all yours, absolutely free. Just ask your nearest Ditch Witch dealer for a copy or send for one today.

*based upon average sized residential lawn.

The Charles Machine Works, Inc.
P.O. Box 66 • Perry, Oklahoma 73077 USA • (800) 654-6481

**SPRINKLER SYSTEM INSTALLATION IN 2 DAYS... SOUNDS GREAT... SHOW ME HOW!**

(check one or more)

- Please send the Sprinkler Installation guide.
- Please send information on the small vibratory plow.
- Arrange for a call by my nearest Ditch Witch dealer.

Name: __________________________
Company: ______________________
Address: ________________________
City: ___________________________ State: _______ Zip: _______

Ditch Witch and **are registered trademarks of The Charles Machine Works, Inc.**

Write 114 on reader service card
RATES: 70 cents per word (minimum charge, $15). Bold face words or words in all capital letters charged at $80 per word. Boxed or display ads charged at $60 per column inch (one inch minimum). Agency commissions will be given only when camera-ready art is provided by agency. For ads using blind box number, add $5 to total cost of ad. Send ad copy with payment to Dawn Anderson, WEEDS, TREES & TURF, 1 East First Street, Duluth, MN 55802.

MISCELLANEOUS

Prepare now to increase next year’s profits. “Garden Tips” the monthly customer newsletter with your company name/phone. Proven response ... cements customer relations, gets them to spend more. Opens new doors expertly in new expansion areas. Low cost, effective profit building. Call today (516) 538-6444, we’ll send complete information or write: Garden Tips, Box 117, Garden City, NY 11530.

KELWAY® SOIL ACIDITY TESTER, used by PROFESSIONALS nationwide. Direct reading, lightweight, portable, fully serviceable, no power source. Model HB-2 reads moisture too. Available through distributors. For brochure contact Kel Instruments Co., Inc., Dept. T, P.O. Box 1869, Clifton, N.J. 07015. (201) 471-3954.

HELP WANTED

WANTED: Firewood Distributors for energy conservation company. Inventory investment range — $2000 to $10,000 — depending on location. Serious replies to: HOM FIREWOOD, P.O. Box 141 Sta. B., Hamilton, Ontario L8L 7O7 Canada.

IRRIGATION SUPERVISOR for established Connecticut irrigation contractor. Previous experience in installation and supervision of irrigation crews essential. Excellent opportunity to join a rapidly expanding company. Excellent salary and future for qualified person. Send complete resume and salary history to Mark Sosnowitz. Sprinklescape, P.O. Box 175, Glenville Station, Greenwich, Conn. 06830 (203) 889-4149.

MANAGER needed for lawn care company in Houston, Texas. Must have sales experience and be aggressive. Long working hours all year. Turf knowledge is a must. Answer this ad ONLY if you feel you fit this description. Excellent salary, great benefits and best opportunity for advancement in the lawn care industry! Send resume and include present salary requirements and financial expectations for next 1, 2, 3, 4, 5 years. Write WTT Box 261.

Chemical Lawn & Tree Care Company needs General Manager with at least three years experience with a national or regional lawn care company. Experience must include sales, and customer and employee relations. Salary open! (214) 690-1051. Layson, Inc., P.O. Box 30121, Dallas, Texas 75230.

WORKING TREE SPECIALISTS excellent opportunity for individual with experience in Pest Control on Ornamentals. Salary and bonus depending on qualifications. Send resume and salary requirements or call: Village Green, Ltd., 303 Wilson, West Chicago, IL 60185. (312) 293-1036.

Greenskeeper wanted in Eastern Wyoming at the Niobrara Country Club. Nine hole course with fully automatic watering system. Excellent environment for family living — good schools, hunting and fishing. Send resume to Robert M. Ellis, Secretary, Niobrara Country Club, Box 1356, Lusk, Wyoming 82225.

USED EQUIPMENT

Spyder fork lift: New engine, tires and paint. Edgewood Turf, 5402 Edgewood Road, Crystal Lake, IL 60014. (815) 459-3358.

ECONOMY TRACTOR, new 14 HP engine and stainless steel combine, that aerates, rolls, sprays liquids, applies 4 granular materials, 2 seed mixes all at once, complete with trailer $4000.00. (203) 743-4287 after 6 PM.

FOR SALE: 78 inch Big John tree mower, serial 32 in good condition, original owner. Trees, Inc. (517) 627-9155.


Continues on page 102