

TABLE OF CONTENTS—GREENHOUSES-HEATING, LIGHTS & CONTROLS

HEATING, LIGHTS & CONTROLS

MODINE

High Efficiency Unit Heaters

Propeller Style Natural Gas **190**

PDP Models **191**

Propeller Style Propane **191**

Standard Efficiency Unit Heaters

Propeller Style Natural Gas **192**

Blower Style Heaters

& Accessories **193**

Steam/Hot Water Heaters **193**

Electric Heaters **194**

Holland Heaters **194**

Dynavent Heaters **194**

Southern Burners **195**

Portable Heaters **195**

Heater Accessories **195**

Doublewall Heater Vent Stack **196**

Heater Vent Stack Accessories **198**

Equipment Hanging All Thread **198**

CO2 Burner **198**

Microtube Heating System

Components **199**

Megatube Heating System

Components **200**

Wadsworth

Computer Controls **200**

Multi-Stage Temperature

Controllers & Parts **200**

Bartlett Temperature Controllers **201**

Single Stage Thermostats **202**

Two Stage Thermostats **202**

Fan Speed Controls **203**

Alarm System Components **203**

Alarm Systems & Accessories **204**

PL Growers Lighting Equipment **204**

Light Mounting Equipment **204**

Parsource Growers Lighting

Equipment **205**

Replacement Light Bulbs **205**

**PROPELLER STYLE NATURAL GAS
MODINE UNIT HEATERS
HIGH EFFICIENCY
HOT DAWG MODELS**

Ideal for greenhouse heating. Has adjustable horizontal deflector blades. Can be optionally furnished with added vertical blades. Operation can be automatic or manual.



Propeller Type	HD 30	HD 45	HD 60	HD 75	HD 100	HD 125
Btu/Hr Input	30,000	45,000	60,000	75,000	100,000	125,000
Btu/Hr Output	24,000	36,000	48,000	60,000	80,000	100,000
Vent Dia. (in.) *	3 or 5	3 or 5	3 or 5	3 or 5	4 or 6	4 or 6
CFM @ 70F	505	720	990	1,160	1,490	1,980
Air Temp Rise (F)	44	46	45	48	50	47
Maximum Mounting Height (ft.) **	10	10	12	14	12	16
Heat Throw (ft) **	25	27	36	38	42	56
Motor HP	1/25	1/15	1/12	1/12	1/12	1/8

HD30AS01 | GAS 30M HEATER

Order #: **55-003** –sold as each

HD45AS01 | GAS 45M HEATER

Order #: **55-0045** –sold as each

HD60AS01 | GAS 60M HEATER

Order #: **55-006** –sold as each

HD75AS01 | GAS 75M HEATER

Order #: **55-0075** –sold as each

HDI00AS01 | GAS 100M HEATER

Order #: **55-02110** –sold as each

HDI25AS01 | GAS 125M HEATER

Order #: **55-01125** –sold as each

HDI25SS01 | GAS 125M SS HEATER

With stainless steel heat exchanger

Order #: **55-012250** –sold as each

HOTDAWG NG/LP CONVERSION KIT

Order #: **55-3H34933-I** –sold as each

To Order Call: 405.787.4833 or 1.800.522.3376
Prices subject to change without notice

**MODINE PDP
HIGH EFFICIENCY MODELS**

Modine model PDP High Efficiency II heaters offer the same versatility as the HD models, but provide ratings from 150 to 400 MBH for larger heating requirements. These models include as standard a power exhauster that can be rotated up to 180 degrees, an IPI ignition system with 100% shut-off and continuous retry, totally enclosed motors, a six terminal wiring board, and many other product features that result in benefits to our customers.



Model #	Btu/hr Input	Btu/hr Output	Cfm	Air Temp Rise F	Heat Throw	Approx Shipping Weight	Vent Dia.
PDP150	150,000	120,000	2180	51	55	168	5"
PDP175	175,000	140,000	2550	51	59	175	5"
PDP200	200,000	160,000	2870	52	51	239	5"
PDP250	250,000	200,000	3700	50	67	239	6"
PDP300	300,000	240,000	4460	50	74	269	6"
PDP350	350,000	280,000	4870	53	70	338	6"
PDP400	400,000	320,000	5440	54	69	418	6"

PDP75AE0130 GAS 75M HEATER

Order #: 55-0200 –sold as each

PDP125AE0130 GAS 125M HEATER

Order #: 55-02130 –sold as each

PDP150AE0130 GAS 150M HEATER

Order #: 55-02150 –sold as each

PDP150SE0130 GAS 150M SS HEATER

With stainless steel heat exchanger

Order #: 55-PDP150 –sold as each

PDP175AE0130 GAS 175M HEATER

Order #: 55-02170 –sold as each

PDP 200AE0130 GAS 200M HEATER

Order #: 55-02190 –sold as each

PDP250AE0130 GAS 250M HEATER

Order #: 55-02210 –sold as each

PDP250SE0130 GAS 250M SS HEATER

With stainless steel heat exchanger

Order #: 55-02155 –sold as each

PDP300AE0130 GAS 300M HEATER

Order #: 55-013000 –sold as each

PDP300SE0130 GAS 300M SS HEATER

With stainless steel heat exchanger

Order #: 55-01300 –sold as each

PDP350AE0130 GAS 350M HEATER

Order #: 55-02300 –sold as each

**PROPELLER STYLE
PROPANE UNIT HEATERS
HIGH EFFICIENCY**



**HD30AS0121 PROPANE
HOTDAWG 30M HEATER**

Order #: 55-81030 –sold as each

GREENHOUSES

HEATERS, LIGHTS & CONTROLS-MODINE HEATERS



HD45AS0121 PROPANE HOT DAWG 45M HEATER

Order #: 55-145 –sold as each

HD60AS0121 PROPANE HOTDAWG 60M HEATER

Order #: 55-HD60 –sold as each

HD75AS0121 PROPANE HOTDAWG 75M HEATER

Order #: 55-PV75 –sold as each

HD100AS0121 PROPANE HOTDAWG 100M HEATER

Order #: 55-01100 –sold as each

HD100SS0121 PROPANE HOTDAWG 100M SS HEATER

With stainless steel heat exchanger

Order #: 55-04105 –sold as each

HD125AS0121 PROPANE HOTDAWG 125M HEATER

Order #: 55-05130 –sold as each

HD125SS0121 PROPANE HOTDAWG 125M SSHEATER

With stainless steel heat exchanger

Order #: 55-01225021 –sold as each

PDP150AE0185 PROPANE HOTDAWG 150M HEATER

Order #: 55-05150 –sold as each

PDP150SE0185 PROPANE HOTDAWG 150M SS HEATER

With stainless steel heat exchanger

Order #: 55-PDP150LP –sold as each

PDP175AE0185 PROPANE 175M HEATER

Order #: 55-PDP175 –sold as each

PDP200AE0185 PROPANE 200M HEATER

Order #: 55-042001 –sold as each

PDP250AE0185 PROPANE 250M HEATER

Order #: 55-05240 –sold as each

PDP300AE0185 PROPANE 300M HEATER

Order #: 55-05300 –sold as each

PDP350AE0185 PROPANE 350M HEATER

Order #: 5521022 –sold as each

PROPELLER STYLE NATURAL GAS MODINE UNIT HEATERS STANDARD EFFICENCY



PD30AA0111 GAS 30M HEATER

Order #: 55-01030 –sold as each

PD75AA0130 GAS 75M HEATER

Order #: 55-01075 –sold as each

PV145SE0130 GAS 145M HEATER

With stainless steel heat exchanger

Order #: 55-02240 –sold as each

To Order Call: 405.787.4833 or 1.800.522.3376

Prices subject to change without notice

PD150AA0111 GAS 150M HEATER

Order #: 55-01145 –sold as each

PD175AA0111 GAS 175M HEATER

Order #: 55-01175 –sold as each

PD200AA0111 GAS 200M HEATER

Order #: 55-01200 –sold as each

PD250AA0111 GAS 250M HEATER

Order #: 55-01250 –sold as each

PD350AA0111 GAS 350M HEATER

Order #: 55-01350 –sold as each

PD400AA0111 GAS 400M HEATER

Order #: 55-01400 –sold as each

BLOWER STYLE **HEATERS & ACCESSORIES**

BDP150AE0130 GAS 150M HEATER

Order #: 55-07150 –sold as each

BD/BDP 150 DISCHARGE TRANSITION

Square to round converter box to accept 18" convection tube

Order #: 55-61150 –sold as each

BDP200AE0130 GAS 200M HEATER

Order #: 55-011705 –sold as each

BD/BDP200 DISCHARGE TRANSITION

Square to round converter box to accept 18" convection tube

Order #: 55-01170 –sold as each

BV350AE0130 GAS 350M HEATER

Order #: 55-02195 –sold as each

MODINE STEAM/HOT WATER **HEATERS**

HORIZONTAL BLOWING UNITS

HSB63 HORIZONTAL HOT WATER HEATER

These units provide 52,500 to 63,000 BTU/hour steam & 37,900 to 45,600 BTU/hour using hot water

Order #: 55-63S01 –sold as each

HC86-01 HORIZONTAL HOT WATER HEATER

These units provide 61,500 to 86,000 BTU/hour steam & 44,600 to 60,200 BTU/hour using hot water

Order #: 55-HC86-01 –sold as each

HSB108 HORIZONTAL HOT WATER HEATER

These units provide 86,500 to 108,000 BTU/hour steam & 66,100 to 83,700 BTU/hour using hot water

Order #: 55-108 –sold as each

HSB165 HORIZONTAL HOT WATER HEATER

These units provide 143,000 to 165,000 BTU/hour steam & 113,200 to 130,900 BTU/hour using hot water

Order #: 55-HSB165 –sold as each

VERTICAL BLOWING UNITS

V42S01 VERTICAL HOT WATER HEATER

These units provide 33,000 to 42,000 BTU/hour steam & 23,000 to 30,100 BTU/hour using hot water

Order #: 55-81225 –sold as each

GREENHOUSES

HEATERS, LIGHTS & CONTROLS-MODINE, HOLLAND & DYNAVENT HEATERS



V78 VERTICAL HOT WATER HEATER

These units provide 62,000 to 78,000 BTU/hour steam & 43,600 to 57,000 BTU/hour using hot water

Order #: **55-V78S01** –sold as each

TR-1 TRUNCONE F/V-42 TO V-95 HOT WATER HEATERS

Cone to hang under vertical hot water heaters to diffuse or deflect heat around greenhouse

Order #: **55-23115** –sold as each

PIPE HANGER ADAPTER KIT FOR VERTICAL HOT WATER HEATERS

Used to mount or suspend vertical hot water heaters

Order #: **55-23128** –sold as each

MODINE ELECTRIC HEATERS

Recommended for use only when gas or propane not available since electricity is most expensive fuel to operate. Electric unit heaters have lower installation costs and are easier to install, requiring no venting, piping, valves, traps, etc. but cost more to operate.



HER 50 ELECTRIC HEATER 17,100 BTU/HR

240 volt, 5.0 kilowatts

Order #: **55-210501** –sold as each

HER 100 ELECTRIC HEATER 34,100 BTU/HR

240 volt, 10 kilowatts

Order #: **55-01105** –sold as each

HE UNIT MOUNT THERMOSTAT

Thermostat to mount right on heater to control the on/off cycles of that electric heater.

Order #: **55-907** –sold as each

SUMMER-WINTER TOGGLE SWITCH

Manual switch to allow fan operation for air circulation separate from when heater is on.

Order #: **55-908** –sold as each

HOLLAND HEATERS

HD256 HOLLAND GAS 256M HEATER



These units are known for their economical and clean operation. CO2 enrichment is an added feature of the Holland Heaters. All models have integrated connections for control by either thermostat or computer.

Order #: **55-01225** –sold as each

DYNAVENT HEATERS



Through the wall or window mounted heaters for hobby or institutional greenhouses. Each unit includes thermostat and gas shut off valve

DNV-25 DYNAVENT HEATER 25,000 BTU/HR

Order #: **55-0025** –sold as each

DNV-40 DYNAVENT HEATER 40,000 BTU/HR

Order #: **55-0040** –sold as each

To Order Call: 405.787.4833 or 1.800.522.3376

Prices subject to change without notice

SOUTHERN BURNERS

Great open flame heaters for hobby greenhouses or under draped benches in propagating areas.

AUTOMATIC C-I HEATER

The Model C-I Unit Heater is an open flame heater that does not need to be vented. Although it does require a fresh or combustible air intake from the outside of the greenhouse. The C-I is round in design-12.5 inches in diameter and 22 inches tall, constructed of non-rusting mill polished aluminum shell supporting a stainless steel burner rated at 20,000 BTU input.

Order #: **55-800** –natural gas –sold as each

Order #: **55-802** –propane –sold as each



AUTO A-I VENTED HEATER

The Model A-I Unit Heater is an enclosed flame heater that requires venting to the outside of the greenhouse. It also requires a fresh or combustible air intake from the outside of the greenhouse. The A-I is square in design-16.25 inches wide, 17.5 inches deep and 25 inches tall, constructed of a non-rusting, mill polished aluminum outer shell, supporting a 24 gauge aluminized steel firebox with vertical flues for maximum air circulation with a stainless steel enclosed burner rated at 25,000 BTU input. This heater must be vented with a 3 inch vent pipe for proper draft. Vent pipe, flashing and raincap are not included.

Order #: **55-801** –natural gas –sold as each

Order #: **55-803** –propane –sold as each



PORTABLE HEATERS

PROPANE CONVECTION HEATER

Portable and adjustable heater to provide 75 to 250 M BTU per hour off propane tank.

Order #: **55-20427** –sold as each

MILKHOUSE HEATER DAYTON 120V



Small plug in heater to provide 2 levels of heat-4,436BTU from 1,300 watts on low or 5,120 BTU from 1,500 watts on high. Controlled with 1 to 10 manually set dial built into unit. 120 volt, 12.5 amps, tipover switch, power indicator with re-settable thermal switch, 3-prong NEMA plug and thermal alarm.

Order #: **55-20934** –sold as each

HEATER ACCESSORIES

3/4" UNIVERSAL GAS VALVE 24V

Combination gas valve; Coil voltage: 24 VAC; Inlet/Outlet: 3/4 x 3/4 inches; BtuH capacity: 280,000; Gas type: natural/liquefied petroleum; side traps; inlet pressure tap; Low current: 0.23 Amp.

Order #: **55-20402** –sold as each

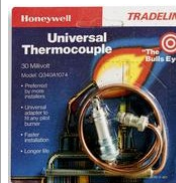
3/4" UNIVERSAL GAS VALVE 24V



Combination gas valve; Coil voltage: 24 VAC; Inlet/Outlet: 1/2 x 3/4 inches; BtuH capacity: 230,000; Gas type: natural/liquefied petroleum; side taps; inlet pressure tap: no; Low current: 0.23 Amp with 1/2" reducer bushing.

Order #: **55-20725** –sold as each

36" UNIVERSAL THERMOCOUPLE



Thermocouple; Length: 36 inches; universal adapter; stainless steel tip; outer jacket. To replace thermocouple on standing pilot heaters with valve to thermocouple distance of 36" or less.

Order #: **55-820142** –sold as each

48" UNIVERSAL THERMOCOUPLE

Thermocouple; Length: 48 inches; universal adapter; stainless steel tip. To replace thermocouple on standing pilot heaters with valve to thermocouple distance of 48" or less.

Order #: **55-820337** –sold as each

3" DOUBLEWALL HEATER **VENT STACK**

Used to vent gas or propane unit heaters that require 3" exhaust pipe stack.

18" X 3" D.W. VENT PIPE

Order #: 55-9318 –sold as each

2' X 3" D.W. VENT PIPE

Order #: 55-9320 –sold as each

3' X 3" D.W. VENT PIPE

Order #: 56-33 –sold as each

3" D.W. 90 DEGREE ELBOW

Order #: 56-9003 –sold as each

3" D.W. 45 DEGREE ELBOW

Order #: 55-9322 –sold as each

VENT TOP 3" DOUBLE WALL

Order #: 56-30 –sold as each

ADJUSTABLE ROOF FLASHING 3" D.W.

Order #: 55-9319 –sold as each

4" DOUBLEWALL HEATER **VENT STACK**

Used to vent gas or propane unit heaters that require 4" exhaust pipe stack.

2' X 4" D.W. VENT PIPE

Order #: 55-9402 –sold as each

3' X 4" D.W. VENT PIPE

Order #: 55-9403 –sold as each

4' X 4" D.W. VENT PIPE

Order #: 56-9404 –sold as each

5' X 4" D.W. VENT PIPE

Order #: 56-9405 –sold as each

4" D.W. 90 DEGREE ELBOW

Order #: 55-9490 –sold as each

VENT TOP 4" D.W.

Order #: 55-9413 –sold as each

DRAFTHOOD CONNECTOR 4" D.W.

Order #: 55-9404 –sold as each

5" DOUBLEWALL HEATER **VENT STACK**

Used to vent gas or propane unit heaters that require 5" exhaust pipe stack.

12" X 5" D.W. VENT PIPE

Order #: 55-9500 –sold as each

2' X 5" D.W. VENT PIPE

Order #: 55-95025 –sold as each

3' X 5" D.W. VENT PIPE

Order #: 55-9503 –sold as each

4' X 5" D.W. PIPE

Order #: 55-9504 –sold as each

To Order Call: 405.787.4833 or 1.800.522.3376
Prices subject to change without notice

5" D.W. 90 DEGREE ELBOW

Order #: 55-9590 –sold as each

VENT TOP 5" D.W.

Order #: 55-9501 –sold as each

DRAFT HOOD CONNECTOR 5" D.W.

Order #: 55-9502 –sold as each

6" DOUBLEWALL HEATER
VENT STACK

Used to vent gas or propane unit heaters that require 6" exhaust pipe stack.

12" X 6" D.W. VENT PIPE

Order #: 32-063 –sold as each

12" X 6" DW ADJUSTABLE VENT PIPE

Order #: 32-06012 –sold as each

18" X 6" D.W. VENT PIPE

Order #: 55-9618 –sold as each

2' X 6" D.W. VENT PIPE

Order #: 55-9602 –sold as each

3' X 6" D.W. VENT PIPE

Order #: 55-9603 –sold as each

4' X 6" D.W. VENT PIPE

Order #: 55-9604 –sold as each

5' X 6" D.W. VENT PIPE

Order #: 55-96051 –sold as each

6" D.W. 90 DEGREE ELBOW

Order #: 55-9690 –sold as each

6" D.W. 45 DEGREE ELBOW

Order #: 32-062 –sold as each

VENT TOP 6" D.W.

Order #: 55-9613 –sold as each

DRAFT HOOD CONNECTOR 6" D.W.

Order #: 55-9601 –sold as each

7" DOUBLEWALL HEATER
VENT STACK

Used to vent gas or propane unit heaters that require 7" exhaust pipe stack.

2' X 7" D.W. VENT PIPE

Order #: 55-914 –sold as each

3' X 7" D.W. VENT PIPE

Order #: 55-917 –sold as each

4' X 7" D.W. VENT PIPE

Order #: 55-9704 –sold as each

5' X 7" D.W. VENT PIPE

Order #: 55-9141 –sold as each

7" D.W. 90 DEGREE ELBOW

Order #: 55-915 –sold as each

VENT TOP 7" D.W.

Order #: 55-9713 –sold as each

DRAFTHOOD CONNECTOR 7" D.W.

Order #: **55-916** –sold as each

8" DOUBLEWALL HEATER VENT STACK

Used to vent gas or propane unit heaters that require 8" exhaust pipe stack.

2' X 8" D.W. VENT PIPE

Order #: **55-98022** –sold as each

3' X 8" D.W. VENT PIPE

Order #: **55-9803** –sold as each

4' X 8" D.W. VENT PIPE

Order #: **55-9890** –sold as each

5' X 8" D.W. VENT PIPE

Order #: **55-9805** –sold as each

8" D.W. 90 DEGREE ELBOW

Order #: **55-9804** –sold as each

VENT TOP 8" D.W.

Order #: **55-9802** –sold as each

DRAFTHOOD CONNECTOR 8" D.W.

Order #: **55-9801** –sold as each

WALL THIMBLE 8" D.W.

Order #: **55-9821** –sold as each

STORM COLLAR 8" D.W.

Order #: **55-9820** –sold as each

HEATER VENT STACK ACCESSORIES

4-7" MASTERFLASH FLASHING

Flexible aluminum bottom plate to mount on flat or corrugated glazing with black rubber round pyramid with ridges at different pipe sizes to cut to size to seal around heater stack at roof or wall penetration.

Order #: **56-4510** –sold as each

12" X 12" HEATER STACK WALL PLATE

Aluminum plates so you can cut hole for heater stack to penetrate and then install 2 plates at wall penetration for heater stack-one inside and one outside of wall. Cut hole in glazing at least one inch larger on all sides to allow separation from stack required by code and then use wall plates to snug to stack to cover gap and out over greenhouse glazing

Order #: **55-1212** –sold as each

EQUIPMENT HANGING ALL THREAD

Used to suspend unit heaters, fanjets or other equipment from greenhouse frame

3/8" X 3' GALVANIZED ALL THREAD

Order #: **55-0383** –sold as each

1/2" X 12' GALVANIZED ALL THREAD

Order #: **55-21212** –sold as each

CO2 BURNER

JOHNSON CO2 GENERATOR

Open flame inside round metal cabinet to burn natural gas or propane to create carbon dioxide while also providing small amount of heat.

Order #: **30-1332** –sold as each

To Order Call: 405.787.4833 or 1.800.522.3376
Prices subject to change without notice

TRANSFORMER FOR JOHNSON CO2 BURNER

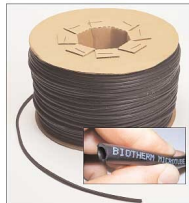
To reduce voltage from 120 volt to 24 volt to allow low voltage control of unit.

Order #: **30-1333** –sold as each

MICROTUBE HEATING SYSTEM COMPONENTS

1000' MICROTUBE EPDM TUBING

The tubing can be placed on top of greenhouse benches, below expanded metal benches, on the ground for bedding plants, or buried in media beds for propagating woody ornamentals. Conceive an application and BioTherm tubing is up to the task. This high performance tubing is formulated to last, UV and chemical resistant, will handle foot and small cart traffic, warranted for 10 years—formulated to last for 50 years.



Order #: **552105** –per roll

MICROTUBE WEDGELOCK “L” FITTING

For manifolds or headers installed at the end of a bench/bed. Recommended for benches under 50' in length.



Order #: **56-100** –10 per package

MICROTUBE “T” FITTING

For manifolds or headers installed in center of a bench/bed. Sometimes called center-fed or butterfly headers. Recommended for benches over 50'.



Order #: **56-10011** –10 per package

MICROTUBE SPLICE UNIONS

Used for tubing connection, in a new installation or to repair a tube in an existing system.

Order #: **55-99** –10 per package

MICROTUBE TYPE “B” HERBI CLAMPS

Secures BioTherm micro tubing to “L” or “T” fittings. Nylon “66” compound lasts for many years in the greenhouse heat environment. Holds tight with “Double Serrated” jaw teeth.

Order #: **55-98** –10 per package

MICROTUBE GOOF PLUG



In case you need to build your own manifolds and drill one too many holes, “Oh no, I goofed”—we have the solution.

Order #: **552027** –10 per package

MICROTUBE GRABBER-TRAK PER LINEAR FOOT

Grabber-Trak acts as the guide for the BioTherm tubing, anchoring it in the best position possible. Grabber-Trak is made of a leading edge thermoplastic with a life expectancy of 50 years. It’s “L” shape provides ample space for staples, nails, or screws to attach it to bench frame. The “foot” is serrated, so adhesives can be used to attach it to greenhouse metal frame benches. Able to withstand temperatures up to 240 degrees and highly chemical resistant, Grabber-Trak is the answer to almost any tubing placement problem. With capabilities of spacing tubing in 1/2” increments, it is adaptable to any installation.

Order #: **55-971** –per linear foot

BRASS HOSE BARB FOR 1/8”/EPDM TUBE

Brass adapters for building bottom heat headers. These are for header to hose connection.

Order #: **55-97** –25 per package

QUART HEATING WATER TREATMENT

Solution to treat closed loop recirculated water in Biotherm or other hot water heating systems.

Order #: **552023** –sold as each

MEGATUBE HEATING SYSTEM COMPONENTS

500' ROLL MEGATUBE F/HEATING

This high performance tubing is formulated to last, UV and chemical resistant, will handle foot and small cart traffic, warranted for 10 years—designed to last for 50 years. Used in engineered MegaTube Systems on ground, in concrete slab and sometimes on rolling bench applications.



Order #: **55-995** –sold as roll

WADSWORTH COMPUTER CONTROLS

ENVIROSTEP COMPUTER CONTROL SYSTEM

Day, night and DIF setpoints, 12 programmable control relays, 7 days data in 15 minute increments, keypad for programming, alarm output comes with aspirated sensor. With optional web package can be tied into remote PC with up to 127 systems.



Order #: **554021** –sold as each

VERSISTEP COMPUTER CONTROL SYSTEM

Controls 1 to 8 zones with day, night, DIF setpoints, 32 input channels, 24 programmable relay outputs. Includes aspirated temperature and humidity sensor, alarm outputs, keypad for programming and saves history in 15 minute increments.



Order #: **554023** –sold as each

VERSISTEP SATELLITE CONTROL

Adds 16 additional outputs to be controlled by main Veristep controller. 1 satellite increases main system from 24 to 40 outputs and 2 satellites would increase outputs to 56.

Order #: **554023 I** –sold as each

WADSWORTH MULTI-STAGE TEMPERATURE CONTROLLERS

STEP-UP DIGITAL CONTROL SYSTEM



Features 3 set points for day, night and DIF. Allows digital control of up to four cooling stages, a set point and two heating stages with aspirated sensor. Features digital display, turn knob control, save and help buttons and timed overrides.

Order #: **55-2802** –sold as each

STEP 50A/CONTROL SYSTEM 110V POWER, 24 VOLT CONTROL



Long term standard of the industry. Three stages of cooling, a set point and two stages of heating with day and night settings and an aspirated sensor.

Order #: **55-4010** –sold as each

STEP 500 CONTROL SYSTEM 110 V POWER, 24 VOLT CONTROL



Larger version of Step 50 with five stages of cooling, a set point and three stages of heating. Includes day and night settings and an aspirated sensor. Includes day and night settings and an aspirated sensor. Includes day and night settings and an aspirated sensor.

Order #: **55-M4600** –sold as each

CUSTOM RELAY PANEL

Panel fabricated to include prewired contactors/relays for your specific equipment to be controlled by a Wadsworth controller.

Order #: **55-0999** –sold as each

CUSTOM WIRING DIAGRAM

Wiring diagram prepared for your specific operation to speed up installation of your Wadsworth control system and insure proper operation.

Order #: **55-0998** –sold as each

To Order Call: 405.787.4833 or 1.800.522.3376
Prices subject to change without notice

MINI STEP 4 STAGE CONTROL SYSTEM

Basic staged controls for small free-standing greenhouses. Superior to multiple thermostats that can compete with one another. Factory programmed with one heat and three cooling stages to adjust from set point you set on key pad. Ships prewired to basic power relay panel.



Order #: **55-4000** –sold as each

ELECTRONIC 4 STAGE THERMOSTAT CONTROL

Use as four stages of cooling, four stages of heating, two stages of each or some other combination. LCD display of current temperature and with keypad for easy programming.

Order #: **55-E1608** –sold as each

PARTS FOR WADSWORTH
MULTI STAGE CONTROLLERS

STEP 50 REPLACEMENT ASPIRATOR W/100' CABLE

Order #: **55471** –sold as each

M4015 REPLACEMENT ASPIRATOR ONLY WITHOUT CABLE

Order #: **55-4015** –sold as each

E0804 REPLACEMENT ASPIRATOR FAN FOR STEP 50

Order #: **55452** –sold as each

S-9316 STEP 50 ASPIRATOR DC CIRCUIT BOARD ASSEMBLY REPLACEMENT

Order #: **55-9316** –sold as each

E-0314 CUBE RELAY (SPDT) FOR STEP 50

There are six of these cube relays in the bottom of every Step 50.

Order #: **554553** –sold as each

DIN RAIL #S5220 KIT W/6 RELAYS

To replace all six HE-0314 cube relays and sockets in bottom of older Step 50 controller.

Order #: **55-S5220** –sold as each

S-9314 STEP 50 REPLACEMENT MAIN CIRCUIT BOARD

Order #: **55447** –sold as each

BARTLETT

TEMPERATURE CONTROLLERS



These very nice digital controls feature 4 stages of cooling, 2 HAF or circulation stages and 2 heating stages with day, night and DIF set-points. LED display, easy programming, alarm output, 24 hour clock, 7 day record keeping, auto-

matic or manual operation. There are options to control shade curtains, lights, irrigation or misting systems and computer interface software to tie the units into a remote computer.

GHK 12X2 DIGITAL CONTROLLER F/1 SPEED MOTORS

With relay box and wiring diagrams for houses cooled by louvers and fans.

Order #: **55-AEZYWY** –sold as each

GHK 12X12 DIGITAL CONTROLLER #AE24C2 F/2 SPEED MOTORS

With relay box and wiring diagrams for houses cooled by louvers and fans.

Order #: **55-GHK12** –sold as each

GHK 12X2 DIGITAL CONTROLLER ONLY

Without relay box and wiring diagrams for houses cooled by louvers and fans.

Order #: **55-GHK12X2** –sold as each

To Order Call: 405.787.4833 or 1.800.522.3376

Prices subject to change without notice

BARTLETT CONTROL LIGHT RELAY

Extra relay to allow control of greenhouse lighting system.
Order #: **55-LIGHK12** –sold as each

SINGLE STAGE THERMOSTATS

SINGLE STAGE DIGITAL J&D/PHASON THERMOSTAT

The VC141 is our best single stage thermostat with digital display and remote sensor is ideal for controlling exhaust fans, recirculation fans, inlets, cooling devices and heaters. It has a plastic NEMA 4 housing, adjustable temperature differential and is programmable with a quick touch of a button. Use for heating or cooling. Remote sensor with 8' cable. Digital temperature display. Touch pad control settings. Settings retained during power failure. Adjustable differential 1 F to 30 F. Temperature range 30 F to 220 F.

Order #: **55-VC0141** –sold as each



T41 SINGLE STAGE DRAMM THERMOSTAT

Dramm Microfan mechanical thermostats are designed with rough environments in mind. These high quality thermostats are perfect for any situation where harsh conditions may damage less durable equipment. Protected in sealed PVC housings, these thermostats offer stainless steel coiled sensors and accuracy to 1 degree C. The SPDT (Single Pole Double Throw) switch contact (one set of contacts open on temperature rise as the other set closes) is a no load contact and offers superior accuracy. Designed to be placed in the area to be controlled, the Dramm Microfan Thermostats are perfect for heating, cooling, and ventilation control in greenhouses, factory building, warehouses, farms or anywhere requiring accuracy in control. This thermostat can be used for either heating or cooling control depending on the terminals connected.

Order #: **55-41** –sold as each



SINGLE STAGE THERMOSTAT W/8' CORD



The VC15 single stage J&D thermostats can be used for heating or cooling. The plastic NEMA 4 housing with stainless steel sensor is ideal for any harsh environment or high moisture applications. Stainless steel sensor. Comes with water proof wire connectors. Works for heating or cooling. CSA NRTL UL equipment. One year warranty. 12 amps. Maximum ambient 120 F or 50 C. Temperature range: 32 F to 104 F, 0 C to 40 C.

Order #: **55-VC15** –sold as each

SINGLE STAGE BOTTOM COIL THERMOSTAT



Line voltage ventilation control; Voltage rating: 120/240 VAC; Contact current rating resistive @ 120VAC: 22 amps; Contact current rating resistive @ 240VAC: 22 Amps; Inductive rating @ 120 VAC: 16 Amps; Inductive rating @ 240 VAC: 8 Amps; Sensor hydraulic cap; switch SPDT; Temperature differential: 3 1/2 degrees F; Application: heating/cooling; Control range: 30 to 110 degrees F; Dimension: 2 inches; Height: 5 1/2 inches; Width: 2 inches. Single pole, double throw thermostat
Order #: **55-20206** –sold as each

TWO STAGE THERMOSTATS

TWO STAGE DIGITAL J&D/PHASON THERMOSTAT



The two stage thermostat with digital display and remote sensor is ideal for controlling exhaust fans, recirculation fans, inlets, cooling devices and heaters. The control can be used for two stages of cooling, two stages of heating, or one stage cooling plus one stage heating. It can also operate two speed fan motors. Easy to program with adjustable differential.

Order #: **55-VC241** –sold as each

T42 TWO STAGE DRAMM THERMOSTAT



This thermostat can be used for either two stages of heating, two stages of cooling or one stage of heat and one stage of cooling control depending on the terminals connected.

Order #: **55-042** –sold as each

To Order Call: 405.787.4833 or 1.800.522.3376
Prices subject to change without notice

TWO STAGE BOTTOM COIL THERMOSTAT

Line voltage ventilation control; Voltage rating: 120/240 VAC; Contact current rating resistive @ 120VAC: 16 amps; Contact current rating resistive @ 240VAC: 8 Amps; Inductive rating @ 120 VAC: 16 Amps; Inductive rating @ 240 VAC: 8 Amps; Sensor hydraulic cap; Switch: SPDT/SPDT; Temperature differential: 3 1/2 degrees F; Application: 2 stage; Control range: 30 to 110 degrees F; Height: 7 1/3 inches; Width: 3 1/2 inches; Depth: 4 inches. Single pole, double throw thermostat

Order #: **55-20207** –sold as each



TWO STAGE LINE VOLTAGE HEAT/COOL THERMOSTAT

Sunne brand plastic body to read 40-100 degrees F and operate at 120-277 volts.

Order #: **55-TH109** –sold as each

VARIABLE DIGITAL TEMPERATURE CONTROL

Phason brand to control up to 10 amps.

Order #: **55-VTC-ID** –sold as each

FAN SPEED CONTROLS

H115 MANUAL HAF SPEED CONTROL

Schaefer's manual controllers can be used on most Schaefer single speed fans to adjust air flow from 20% to 100% of fan output capacity. They also have the ability to turn the fan completely off. Supplied in water tight electrical enclosure with approved connectors. 115 VAC, 5 amps. Use H-115 on smaller (12" or smaller) circulation and exhaust fans.

Order #: **55-0115** –sold as each

VFT130144 VARIABLE FAN SPEED CONTROL

J&D control to regulate variable speed motors up to 10 amps from low to high speed.

Order #: **55-130144** –sold as each

ALARM SYSTEM COMPONENTS

SENSAPHONE 800 ALARM DIALER



Unit needs phone line connection and will dial up to eight numbers when temperature, power outage or other alarm channel is activated. Cheapest insurance you can buy for your greenhouse to make you aware of temperature conditions. The 800 dialer is equipped with up to 8 alert zones and allows

for user recordable messages.

Order #: **55-1000** –sold as each

SENSAPHONE 1104 ALARM DIALER

Dials up to 4 phone numbers based on alarm condition from 2 channels like temperature, power outage, break-in, high sound levels, battery backup, etc. When connected to a phone like it will respond to an alarm by dialing the phone numbers you have programmed. When the call is answered an alert condition message is delivered in digitized speech.

Order #: **55-1101** –sold as each

SENSAPHONE REMOTE TEMPERATURE SENSOR

Option to read current temperatures at a remote location instead of at Sensaphone

Order #: **55-1001** –sold as each

50' ACCESS WIRE FOR SENSAPHONE

Wire to connect sensors and switches to Sensaphone

Order #: **55-1102** –sold as each

MAGNETIC REED SWITCH F/ SENSAPHONE

2 part switch to put by doors, windows, etc. to cause alarm when connection is broken.

Order #: **55-1103** –sold as each

ALARM SYSTEMS & ACCESSORIES

WINLAND TEMP ALERT TA-I

The economical TA-I Mechanical Temp Alert adds reliable and economical temperature protection to your residential or commercial security system. The design can be used anywhere the monitoring of high and low temperature limits is critical.



The unit measures temperatures from -30 to +130 degrees F (-34 to +54 C). Simply select an acceptable temperature range by setting the adjustable high and low limits. If temperatures in the monitored area rise above or fall below the set limits, the temperature indicator contacts one of the preset limit arms providing a dry contact closure, which working like a switch can be used to turn on an existing alarm panel, telephone communicator, or wireless alarm system.

Order #: **55-1014** –sold as each

RECHARGEABLE HORN ALARM

Install with Temp Alert or Sensaphone to sound loud audible horn when greenhouse is in alarm mode for temperature or other condition.

Order #: **55-10681** –sold as each

PL GROWERS LIGHTING EQUIPMENT

PL 2000 400 WATT REMOTE CONVERTIBLE BALLAST

Advanced light fixture from Europe that can operate as either high pressure sodium or metal halide with a flip of a switch and the changing of the bulb. Specify original bulb for high pressure sodium or metal halide

Order #: **18-0920** –sold as each

PL 2000 400 WATT HIGH PRESSURE SO-DIUM FIXTURE

Order #: **18-090** –sold as each

PL 2000 400 WATT METAL HALIDE FIXTURE

Order #: **18-0901** –sold as each

PL 2000 1000 WATT REMOTE CONVERTIBLE BALLAST

Remote ballast to reduce light frame shadow overhead and relocate ballast heat to a wall or under a bench. Specify original bulb for high pressure sodium or metal halide

Order #: **18-2010** –sold as each

PL 2000 1000 WATT HIGH PRESSURE SO-DIUM FIXTURE

Order #: **18-PL2000** –sold as each

PL 2000 1000 WATT METAL HALIDE FIXTURE

Order #: **18-2000/M100** –sold as each

LIGHT MOUNTING EQUIPMENT

6'6" LONG CORD SET: 120V

Can be ordered on fixtures so they are ready to plug in.

Order #: **18-094** –sold as each

SINGLE FIXTURE MOUNTING HARDWARE

Kit of chain and clips to hang individual fixtures above crop.

Order #: **18-093** –sold as each

20' STEEL "U" LIGHT MOUNTING TRACK

Hang overhead in greenhouse to support lights above benches or crops.

Order #: **18096** –sold as each

U-TRACK COUPLING FOR PL LIGHT

Coupling to join multiple "U" tracks together.

Order #: **18097** –sold as each

PL TRUSS MOUNTING "C" BRACKET (#C414)

Two are required per fixture or ballast in most applications.

Order #: **18-092** –sold as each

To Order Call: 405.787.4833 or 1.800.522.3376

Prices subject to change without notice

PARSOURCE GROWERS
LIGHTING EQUIPMENT

**400 WATT PARSOURCE HIGH
PRESSURE SODIUM LIGHT W/
REMOTE BALLAST**

Order #: 18-55190 –sold as each



**400 WATT PARSOURCE HIGH PRESSURE
SODIUM LIGHT W/ STANDARD BALLAST**

Order #: 18-55190A –sold as each



**BEAM FLICKER 400 WATT
120V**

Rotating light for daylength or photoperiod applications. One fixture can provide daylength lighting in 30' x 96' greenhouse.

Order #: 18-58301 –sold as each



REPLACEMENT LIGHT BULBS

400W PHILLIPS METAL HALIDE (MH) BULB

Order #: 18-400 –sold as each

**430 WATT PHILLIPS AGRO HIGH PRES-
SURE SODIUM (HPS) BULB**

Order #: 18-401 –sold as each

**1000 WATT HIGH PRESSURE SODIUM
(HPS) BULB**

Order #: 18-780 –sold as each

1000W METAL HALIDE BULB

Order #: 18-BT371000 –sold as each

To Order Call: 405.787.4833 or 1.800.522.3376
Prices subject to change without notice