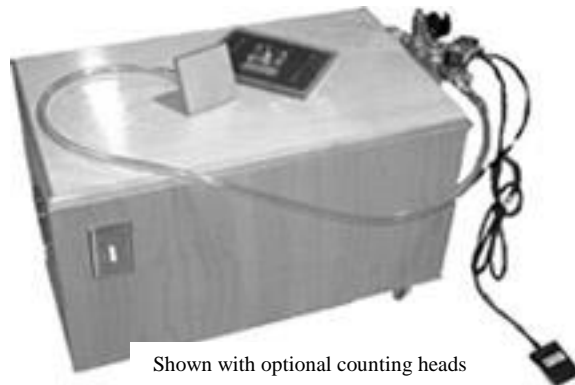


VACUUM SYSTEM OPERATING INSTRUCTIONS



START-UP PROCEDURE

ELECTRICAL CONNECTIONS

TO INSURE PROPER OPERATION, YOUR NEW UNIT MUST BE CONNECTED TO AN INDIVIDUAL CIRCUIT THAT CAN SUPPLY THE FULL VOLTAGE AS STATED ON THE CABINET SERIAL DATA PLATE. FOR CORRECT VOLTAGE, POWER DRAW, AND WIRE ACCOMMODATIONS, CHECK THE DATA ON THE SERIAL DATA PLATE LOCATED ON THE UNIT OR THE TAG ON THE POWER CORD. VERIFY THAT THIS INFORMATION EXACTLY MATCHES THE ELECTRICAL CHARACTERISTICS AT THE INSTALLATION LOCATION.

115V, 60HZ, 1 PHASE CONNECTION

ALL 115 VOLT UNITS ARE PROVIDED WITH A U.L. APPROVED POWER CORD AND POLARIZED PLUG, WHICH IS FACTORY, INSTALLED.

WARNING: ANY ALTERATIONS TO THIS CORD AND PLUG COULD CAUSE AN ELECTRICAL HAZARD AND WILL VOID THE FACTORY WARRANTY. TO INSURE PROPER OPERATION, THIS EQUIPMENT MUST BE PLUGGED INTO A NEMA 5-15R COMPATIBLE, GROUNDED RECEPTACLE THAT CAN SUPPLY THE FULL VOLTAGE AS STATED ON THE SERIAL DATA PLATE.

220V, 50HZ, 1 PHASE CONNECTION

ALL 208-230 VOLT UNITS ARE TO BE PERMANENTLY CONNECTED AND ARE PROVIDED WITH FOUR (4) FIELD WIRING LEADS WHICH EXIT THE ELECTRICAL CONSOLE BOX LOCATED IN THE MACHINE COMPARTMENT BEHIND THE FRONT GRILL. THIS WIRING SHOULD BE CONNECTED TO THE APPROPRIATE POWER SOURCE BY A QUALIFIED ELECTRICIAN AND MUST CONFORM TO ALL LOCAL ELECTRICAL CODES.

ASSEMBLY AND USE

TO ASSEMBLE YOUR SYSTEM, REMOVE THE HOSE & FITTINGS FROM INSIDE THE CABINET. SCREW THE VACUUM MANIFOLD ONTO THE PIPE NIPPLE LOCATED ON THE RIGHT SIDE OF THE VACUUM CABINET.

TO BEGIN COUNTING OR PLANTING, SCREW A COUNTING HEAD (SOLD SEPARATELY) TO THE END OF THE HOSE. THE FOOT SWITCH IS USED TO TURN THE SUCTION ON AND OFF AT THE COUNTING HEAD. IF YOU ARE USING AN OPTIONAL HAND VALVE, THE HAND VALVE WILL SCREW IN BETWEEN THE HOSE AND THE COUNTING HEAD. HOLD THE COUNTING HEAD IN ONE HAND WITH THE HOLES EXPOSED. SPRINKLE THE COUNTING HEAD WITH ENOUGH SEED TO COVER EACH HOLE. WHILE HOLDING THE COUNTING HEAD FIRMLY, ROTATE YOUR HAND IN A CIRCULAR MOTION TO MOVE THE SEED AROUND THE COUNTING HEAD UNTIL ALL HOLES ARE COVERED. IT MAY BE NECESSARY TO REMOVE DUPLICATES (MORE THAN ONE SEED ON A HOLE) WITH A PAIR OF FORCEPS. WHEN ALL HOLES ARE COVERED GENTLY TILT THE COUNTING HEAD TO POUR OFF THE EXCESS SEED. NOW PLACE THE COUNTING HEAD APPROXIMATELY 1/2" ABOVE YOUR PLANTING MEDIA AND RELEASE THE VACUUM (WITH THE HAND VALVE THIS WOULD BE ACCOMPLISHED BY TURNING THE WHEEL, WITH THE FOOT SWITCH ROCK THE FOOT PEDAL FORWARD TO TURN THE VACUUM ON AND OFF). THE SEEDS SHOULD FALL FREELY ON THE PLANTING MEDIA. IF THE COUNTING HEAD IS HELD TOO FAR FROM THE MEDIA THE SEEDS WILL BOUNCE FROM THE INTENDED PLANTING LOCATION.

IN SOME DRY CLIMATES STATIC IS A PROBLEM. THE STATIC ELECTRICITY WILL CAUSE THE SEED TO CLING TO THE ACRYLIC COUNTING HEAD. THIS PROBLEM MAY BE ELIMINATED WITH THE USE OF AN ANTI-STATIC SOLUTION. ANTI-STATIC IS AVAILABLE IN MANY FORMS. FABRIC SOFTENER SHEETS MAY BE RUBBED OVER THE COUNTING HEAD OR AN ANTI-STATIC SPRAY MAY BE USED. **USE OF HARSH CHEMICALS MAY DAMAGE ACRYLIC.**

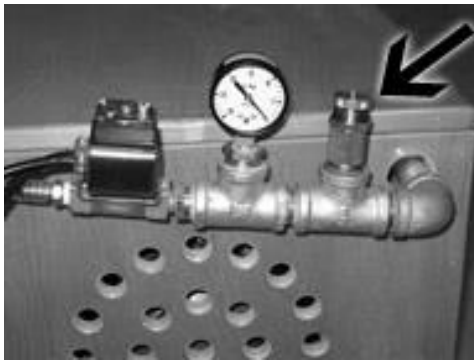


Fig 1

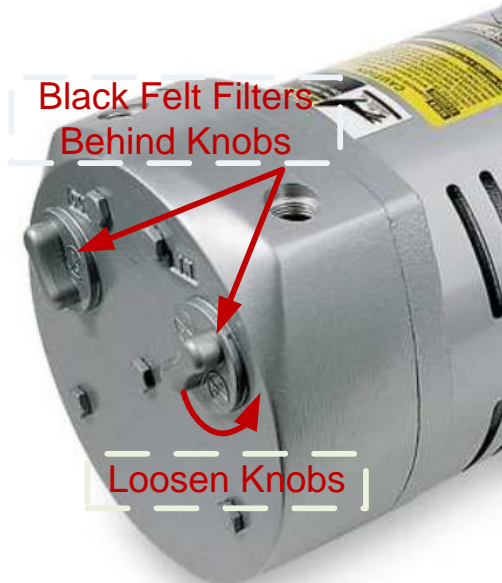


Fig 2

THE VACUUM RELIEF VALVE (Fig 1), WHICH IS FOUND ON THE VACUUM MANIFOLD, CAN BE ADJUSTED FOR MORE OR LESS VACUUM BY LOOSENING THE NUT AND ADJUSTING THE TOP VALVE IN OR OUT. WHILE PERFORMING THIS, WATCH THE GAUGE FOR THE DESIRED VACUUM. THE VACUUM SHOULD BE ADJUSTED TO BEST SUIT EACH VARIETY OF SEED.

IMPORTANT THERE IS A SMALL GOLD **FILTER** LOCATED ON THE VACUUM PUMP. THIS SHOULD BE INSPECTED AND **CLEANED** PERIODICALLY. COMPRESSED AIR CAN BE USED TO BLOW OUT THIS FILTER WHEN REQUIRED. ALONG WITH THIS ARE TWO FELT FILTERS LOCATED BEHIND KNOBS LOCATED ON THE FRONT OF THE PUMP (Fig 2) THESE TOO CAN BE GENTLY BLOWN OUT WITH COMPRESSED AIR. REPLACE WORN OR TORN FILTERS. CHECK PERIODICALLY DEPENDING ON AMOUNT OF USE.

IF THE SOLENOID ASSEMBLY HAS AN INDEPENDENT POWER SUPPLY THIS MUST BE TURNED OFF OR UNPLUGGED WHEN THE SYSTEM IS NOT IN USE. IF THE COIL IS LEFT ON IT CAN BECOME VERY HOT.

****Counting Heads in picture are sold separately***

Motor Type	Rotary Vane Compressor, Dual Frequency, Drip-proof
Bearings	Sealed
Valve	Self-adjusting, Self-lubricating, For Maximum Efficiency
Design	Oil-less

VACUUM SYSTEM LIMITED WARRANTY

HOFFMAN MANUFACTURING, INC WARRANTS THAT IF YOUR VACUUM SYSTEM PROVES TO BE DEFECTIVE IN WORKMANSHIP UNDER NORMAL USE WE WILL PROVIDE, WITHOUT CHARGE, THE PARTS AND LABOR TO REMEDY ANY SUCH DEFECT FOR THE PERIOD OF ONE YEAR FROM THE DATE OF ORIGINAL PURCHASE.

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SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION AND EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

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