City of Portland, Maine	_		ן יייטיי	ermit No:	PERM	TISSUHØBL:
389 Congress Street, 04101		3, Fax: (207) 8/4-8		05-1784	<u> </u>	376 A033001
Location of Construction:	Owner Name:			er Address:	DEC	o 2008 Phone:
25 SHINGLE WAY		NANCY J & DONN		SHINGLE W	A 1	·
Business Name:	Contractor Name		- 1	ractor Address:	A SANDARD SANDAR	Phode
	Avery Service	es, Inc.		homas Drive	Westbrook	PORTI 407728687
Lessee/Buyer's Name	Phone:			iit Type: AC	ngalan ngga Nganga Aga na ngga ngga ngga na ngga ngga	Zone:
Past Use:	Proposed Use:	Personal Control of the Control of Control of the Control of Contr	Pern	nit Fee:	Cost of Wor	k: CEO District:
Single Family Home	1 -	Home/ install Carri		\$93.00	\$7,29	
	cool coil Cond				1	INCRECTION
					Approved Denied	Use Group: 1) Type: 1 Shile Gas 1
Proposed Project Description:				11/6	*	Sple Cas K
install Carrier cool coil Conde	ngar		. /	\sim / \sim		I Common (
mstan Carrier coor con Conde	nser		Signa	<u>-</u>	Director	Signature:
			PEDI	ESTRIAN ACT	14111E2 DI21	RICI (P.A.D.)
***			Actio	on: Appro	ved	roved w/Conditions Defied
Permit Taken By:	Date Applied For:		Signa			Date:
Idobson	12/08/2005			Zoning	I	
This permit application do	ses not preclude the	Special Zone or R	eviews	ws Zoning Appeal		Historic Proservation
Applicant(s) from meeting Federal Rules.		Shoreland		☐ Variano	ce	Not in District or Land
2. Building permits do not in septic or electrical work.	clude plumbing,	☐ Wetland		☐ Miscell	aneous	Does Not Require Rev
3. Building permits are void within six (6) months of th		Flood Zone		Conditional Use		Requires Review
False information may inverge permit and stop all work		Subdivision	·	Interpretation		☐ Approved
		Site Plan		Approv	eđ	Approved w/Condition
		Maj Minor	им 🗌	Denied		Denied /
		Date: 12 14 00	5	Date:		Date: 12/16/65
		([/ /
I hereby certify that I am the ow I have been authorized by the ov jurisdiction. In addition, if a per shall have the authority to enter such permit.	wner to make this appli rmit for work described	ication as his author d in the application	t the pro zed agen s issued,	nt and I agree I certify that	to conform the code off	o all applicable laws of this icial's authorized representat
SIGNATURE OF APPLICANT	······································	ADDF	ESS		DATE	PHONE

•		ilding or Use Permit	Permit No:	Date Applied For:	CBL:	
389 Congress Street, (04101 Tel:	(207) 874-8703, Fax: (2	207) 874-8716	05-1784	12/08/2005	376 A033001
Location of Construction:		Owner Name:	(Owner Address:		Phone:
25 SHINGLE WAY		NICOLSON NANCY.	J & DONNA	25 SHINGLE WA		
Business Name:	Business Name: Contractor Name:			Contractor Address:		Phone
Avery Services, Inc				7 Thomas Drive W	'estbrook	(207) 772-8687
Lessee/Buyer's Name		Phone:	I	Permit Type:	TO THE PROPERTY OF THE PROPERT	
				HVAC		
Proposed Use:		Walling Co.	Proposed	l Project Description:		
Single Family Home/ in	stall Carrier	cool coil Condenser	install	Carrier cool coil C	ondenser	
		in the second				
Dept: Zoning	Status: 2	Approved	Reviewer:	Tammy Munson	Approval D	ate: 12/16/2005
Note:						Ok to Issue: 🔽
Dept: Building	Status: A	Approved with Conditions	Reviewer:	Tammy Munson	Approval D	ate: 12/16/2005
Note:				•	• •	Ok to Issue: 🔽
1) The installation mus	t comply wit	h the State of Maine Gas l	Regulations.			

•

AVERY SERVICES, INC. 7 Thomas Drive WESTBROOK, MAINE 04092 (207) 772-8687

Page 1 of 2

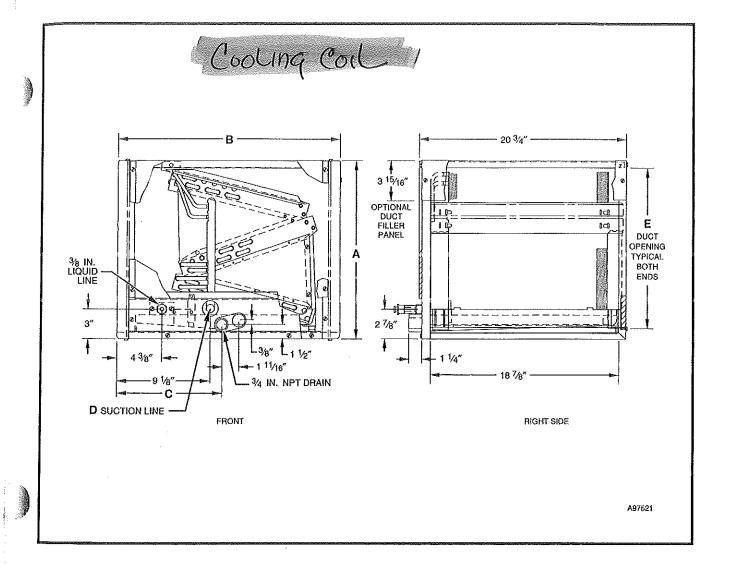
FAX (207) 874-0933

Dave & Renee Smaha 25 Shingle Way

PHONE	DATE
799-4055	11/17/05
IOB NAME / LOCATION	
Add A/C to existing wa	rm air system
	•
IOB NUMBER	JOB PHONE
OCA #580055	
	1. *

Portland ME 04103		oxioting warm	un bystom	
	IOD NI IMPED	···········	LIOPRILONS	
	DCA #58	80055	JOB PHONE	
We hereby submit specifications and estimates for:	TDOM G			
Avery Services, Inc. is pleased to quote, as requested, on heating system. Scope of work to include:	the installation of ce	ntral air condit	ioning to your exis	iting
Remove the existing supply duct plenum (and supply duc Supply and install a new plenum and cooling coil, reconn Remove and dispose of the existing humidifier (torn apart install a new bypass humidifier on the new plenum, recon Supply and install a Carrier 38TXA 3.5 ton Puron conden interconnecting refrigerant piping. Supply and install (in place of existing thermostat) a Carri heat and humidity control for the home. Supply and install a PHI air purifier. Supply and install one (1) supply and one (1) return grill i	ect to the furnace and t already) and contro nect to existing water ser set on a polymer ier Thermidistat and	d existing supp I off existing per supply, duct pad, includes; low voltage	oly duct runouts. Idenum. Supply and connections and drawing disconnect, whip a dring to control; A/	rain. and /C,
minimize sweating of existing duct without insulating duct				
Start up and test. Price includes: freight, taxes and permit			· /!?/	
OPTION: A) To eliminate PHI air cleaner. DEDUCT \$59 B) To supply and install a Rinnai "On Demand" LP gas w wire and gas pipe from main heater (plumbing and power	ater heater, flue (side	walk of building DD \$1,682.00	ng), control, low vo	oltage
We Propose hereby to furnish material and labor — complete in accord	lance with the above specifi	cations, for the sum	of:	
Cont'd			Cont'd).
Payment to be made as follows:				
25% upon acceptance - Progress billing/net ten (10) days - if payment is not made as outlined above, a service charge of 2% per including attorney's fees will be paid.	-		-	etion,
All material is guaranteed to be as specified. All work to be completed in a professional manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado, and other necessary insurance. Our workers are fully covered by Worker's Compensation insurance.			M30 days.	
as specified. Payment will be made as outlined above.	Signature Sexe	MSA N. Sma	hg	
Date of Acceptance:				
NEBS TO F	Reproder:			

		EKOLE SOUND HOLE
SOSCEM 105 CFM 1 OSCFM SOSCFM	2 510 CFM 2 EVT to EVP155 Fum - Your Mandanced 14 ISOLUTION SOCFM SOCFM SOCFM SOCFM MISTAGE SOCFM SOC	
2 6 6 8 67 7 6 67 7 7 6 6 6 8 67 7 8 6 6 6 8 67 7 8 67 8		Sold (Ext. Const.)
		2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2
58mm 1000 F17114 4203415302 KEAFL 030300		
Spasting was Coardiac In the Samileo		Supply Plentin — FL to Jonsis Unut Set on 71/2" Blocks
atad atad	SOURCE 1, CADOLON CHECKED BY CALCULATED BY	
40	SOF AHAM SOL NO. A.	AVERY SERVIC 3 INC, Colonel Westbrook Executive Par V Thomas Drive WESTBROOK, MAINE 04092 (207) VV2-8687



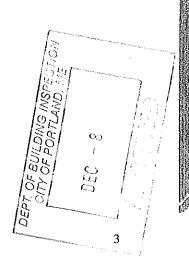
DIMENSIONS (In.)

UNIT	А	В	С	D	E	SHIPPING WEIGHT (LB)	
CK3BXA024(0,T)17	XA024(0,T)17 17-9/16 19-1/		10-1/16	5/8	16	37.0	
CK3BXA030(0,T)17	7 17-9/16 19-1/16		10-1/16	3/4	16	40.5	
CK3BXA036(0,T)17	17-9/16	22-1/16	10-1/4 3/4		16	45.5	
CK8BXA042(0,T)21	21-1/16	22-1/16	10-1/4	7/8	19-1/2	47.0	
CK3BXA048(0,T)21	K3BXA048(0,T)21 21-1/16		10-1/4	7/8	19-1/2	51.0	
CK3BXA060(0,T)24	3BXA060(0,T)24 24-9/16 28-1/		13-3/16	7/8	23	64.0	

NOTE: For the 10th digit position in the model number, 0 = standard copper and T = tin-plated copper.

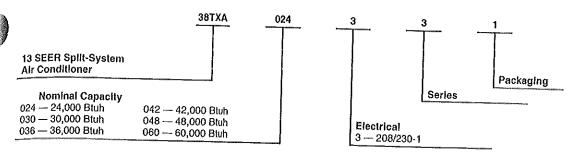
ACCURATER® Piston Chart

Coll CK3B	Piston No.
024	59
030	67
036	70
042	78
048	84
060	90



建工工程

Model number nomenclature



Physical data

UNIT SIZE-SERIES	024-34	030-33	036-33		042-33	048-33	
Operating Weight (Lb)	220	213	243		253	7.00	060-34/35
COMPRESSOR Type		, , , , , , , , , , , , , , , , , , ,		Scroll	200	301	337
REFRIGERANT Control			Pure	on® (F1-41n	A)		things are the same of the sam
Charge (Lb)	5.50	6.00	AccuRater 6.88	WIXV (Hard	d Shutoff) 8.75 1	000	
COND FAN Air Discharge				Type, Direc	P 2	9.95	12.00/11.50
Air Qty (CFM) Motor HP Motor RPM	2400 1/8 825	2400 1/8 825	2800 1/5 825	6263488	2800 1/5 825	3400 1/4	3400 1/4
COND COIL Face Area (Sq ft) Fins per In. Rows Circults	12,2 25 1 2	12.2 25 1	Copper Tube 15.2 25 1	, Aluminum	- F (%)	1125 18.2 20 2 5	1125 18.2 20 2 5
ALVE CONNECT. (In. ID) Vapor Liquid	5/8	3/4	3/4	Sweat 3/8	7/8	7/8	5 7/8
EFRIGERANT TUBES* (In, OD) Vapor (0–50 Ft Tube Length) Vapor (Max Diameter for Long- Line Applications)	5/8 7/8	3/4	3/4		7/8	7/8	1-1/8
Liquid (0–50 Ft Tube Length) Liquid (For Long-Line Applications)	1		110	3/8	-1/6	1-1/8	1-1/8

^{*} For tubing sets greater than 50 ft horizontal and/or 20 ft vertical differential, consult Residential Split System Long-Line Application Guideline and

NOTE: See unit Installation Instructions for proper installation.

ACCURATER® PISTON CHART

PISTON* IDENTIFICATION NO.
IDENTIFICATION NO.
55
63
70
73
78
96
TXV

Piston listed is for any approved non-capillary tube coll combination. Piston is shipped with outdoor unit and must be installed in approved indoor coil.

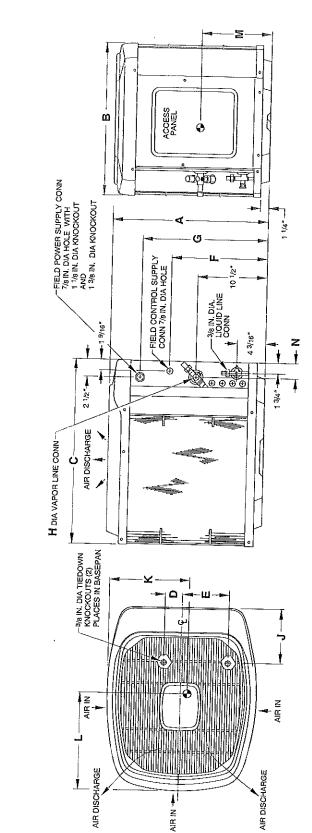
CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE*)

וט	NIT SIZE-SERIES	REQUIRED SUBCOOLING (°F)
ar a	024-34	10
	030-33	12
	036-33	11
	042-33	12
	048-33	11
	060-34, 35	12

^{*} Must be a Puron® (R-410A) approved hard shutoff TXV.

Dimensions

- 1. Allow 30 in. clearance to service side of unit, 48 in. above unit, 6 in. on one side, 12 in. on remaining side, and 24 in. between units for proper airflow.
- 2. Minimum outdoor operating ambient in cooling mode is 55°F (unless low ambient control is used) max 125°F. 3. Series designation is the 13th position of the unit model number 4. Center of gravity 4.



A97084

BAN _{IN}	*******	******	- Anna Carlo	WZE	****	2m	****	1	-	1	Balga	•		7822	
		MINIMILIM	MOUNTING	5		00:00	70×37	26 7 96	20 X 32	26 x 32	20 × 02	28×32	20 2. 30	50 Y 35	26 x 32
				2	Z	3 15/10	2-13/10	2-15/16	0 6	2-15/16	Section Committee	5-15/16	2-1 KME		2-15/16
				2	101	1.2		Ç	2	15-3/4		4/0-/-	17-1/4		16-3/4
				-	,	19-3/4		19-3/4		19-3/4		Ď	19-1/2		19
				¥		<u>~</u>		18-1/2		14	1/0/4	5	16-3/4		2/1-91
				7		8-3/16		9-3/16		9-3/16	8.37/16		8-3/16	07/00	0-7/10
$\overline{\cdot}$	UN			r	ç	α Λ	i	5/4	7,0	7/7	7/8		8//	٥/٧	2//
DIMENSIONS (IN.)	UNIT DIMENSIONS		(5	24.770	21-170	01-70	0//_15	8/1.70		8778	1100	2//-55	33-7/8	2:: }}
DIMEIN	JND		u	_	15-1/0	7/ 2:	15-1/2	1/1 2:	21-1/2	State of the last	27-1/2	27.475	2/1_/5	27-1/2	
İ			ц	1	9-3/4		9-3/4		9-3/4	7	4.5.4	0.3/4		9-3/4	
			٥		4		4		4		•	4		4	
			U		34-15/16		91/61-45	07/47 70	01/C1-40	3/13/14	2	34-15/16	07/17	04-10	
			Ω)	3	3	S	⋛	2	8	30		ဓ္က	Ş	3	
			4	07 40 40	01/01.75	27-12/16	01/01/2	33-13/16	20.00	39-13/16		38-13/16	34-13/16		
			SERIES	24	5	ę,	3	8		88		ဂို	34, 35		
000000000000000000000000000000000000000		EN	SIZE	024	100000	030		036		270	OVO	2	090		



ACCESSORY DESCRIPTION AND USAGE (continued)

9. Outdoor Air Temperature Sensor

Designed for use with Carrier Thermostats listed in this publication. This device enables the thermostat to display the outdoor temperature. This device also is required to enable special thermostat features such as auxiliary heat lock out.

Usage Guideline:

Suggested for all Carrier thermostats listed in this publication.

10. Sound Hood

Wraparound sound reducing cover for the compressor. Reduces the sound level by about 2 dBA.

Suggested when unit is installed closer than 15 ft to quiet areas-bedrooms, etc.

Suggested when unit is installed between two houses less than 10 ft apart.

11. Support Feet

Four stick-on plastic feet that raise the unit 4 in. above the mounting pad. This allows sand, dirt, and other debris to be flushed from the unit base, minimizing corrosion.

Usage Guideline:

Suggested in the following applications:

Coastal installations

Windy areas or where debris is normally circulating.

Rooftop installations.

For improved sound ratings.

12. Thermostatic Expansion Valve (TXV)

A modulating flow-control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator. Kit includes valve, adapter tubes, and external equalizer tube. Hard shut off types are available.

Note: When using a hard shut off TXV with single phase reciprocating compressors, a Compressor Start Assist -- Capacitor and Relay is required.

Usage Guideline:

Required to achieve ARI ratings in certain equipment combinations. Refer to combination ratings.

Hard shut off TXV or LLS required in air conditioner long line applications.

Required for use on all zoning systems.

13. Time-Delay Relay

An SPST delay relay which briefly continues operation of indoor blower motor to provide additional cooling after the compressor cycles off. Note: Most indoor unit controls include this feature. For those that do not, use the guideline below. Usage Guideline:

For improved efficiency ratings for certain combinations of indoor and outdoor units. Refer to ARI Unitary Directory.

Electrical data

UNIT SIZE-		OPER VOLTS*		COMPR		NOLTS* COMPR		FAN		60°C MIN WIRE	75°C MIN WIRE	60°C MAX	75°C MAX	MAX FUSE**
SERIES-	V/PH	Max	Min	LRA	RLA	FLA	MCA	SIZE†	SIZE†	LENGTH (Ft)‡	LENGTH (Ft)‡	OR CKT		
024-34				60.0	12.8	8.0	16.8	14	14	46	44	25		
030-33				72.5	14.7	0.8	19.2	14	14	41	39	30		
036-33	208/230/1	253	187	83.0	15.4	1.1	20.2	12	12	62	59	30		
042-33	20072007	40000000000000000000000000000000000000	107	105.0	18.6	-1:1	24,4	10	10	80	76	40		
048-33	AND THE PROPERTY OF THE PROPER			109.0	20.5	1.4	27.0	10	10	73	70	40		
060-34, 35				158.0	27.6	1.4	35.9	8	8	85	. 80	60		

Permissible limits of the voltage range at which unit will operate satisfactorily.

If wire is applied at ambient greater than 30°C (86°F), consult Table 310-16 of the NEC (ANSI/NFPA 70). The ampacity of nonmetallic-sheathed cable (NM), trade name ROMEX, shall be that of 60°C (140°F) conductors, per the NEC (ANSI/NFPA 70) Article 336-26. If other than uncoated (non-plated), 60 or 75°C (140 or 167°F) insulation, copper wire (solid wire for 10 AWG and smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (ANSI/NFPA 70).

Length shown is as measured 1 way along wire path between unit and service panel for voltage drop not to exceed 2%.

Time-delay fuse.

- Full Load Amps LRA - Locked Rotor Arms

MCA - Minimum Circuit Amps

- Rated Load Amps

NOTE: Control circuit is 24-v on all units and requires external power source. Copper wire must be used from service disconnect to unit. All motors/ compressors contain internal overload protection.

A-weighted sound power (dBA)

UNIT Size-Series	STANDARD RATING	TYPICAL OCTAVE BAND SPECTRUM (without tone adjustment)						
		125	250	500	1000	2000	4000	8000
024-33	70	55.5	60.0	63.0	64.0	62.0	61.0	55.0
024-34	71	58.5	64.0	65.0	65.0	64.0	57.0	49.5
030-33	71	54.0	61.5	65.5	64.0	62.0	60.0	52.0
036-33	71	58.0	62.5	64.5	64.5	61.5	57.5	49.0
042-33	72	55.5	62.5	65,5	67.0	64.5	63.5	57.0
048-33	76	61.5	67.0	68.5	67.0	65.0	64.0	54.5
060-34, 35	78	63.5	67.5	71.5	72.0	67.0	62.0	55.0

NOTE: Tested in accordance with ARI standard 270.95. (Not listed with ARI.)