



CAMBRIDGE HISTORICAL COMMISSION

831 Massachusetts Avenue, 2nd Fl., Cambridge, Massachusetts 02139

Telephone: 617 349 4683 Fax: 617 349 3116 TTY: 617 349 6112

E-mail: histcomm@cambridgema.gov URL: http://www.cambridgema.gov/Historic

RECEIVED

APR 11 2017

CAMBRIDGE HISTORICAL COMMISSION

APPLICATION FOR CERTIFICATE

1. The undersigned hereby applies to the Cambridge Historical Commission for a Certificate of (check one box): Appropriateness, Nonapplicability, or Hardship, in accordance with Chapter 40C of the Massachusetts General Laws and/or Chapter 2.78 of the Municipal Code.

2. Address of property: Hastings Hall
1533-1541 Massachusetts Avenue, Cambridge, Massachusetts

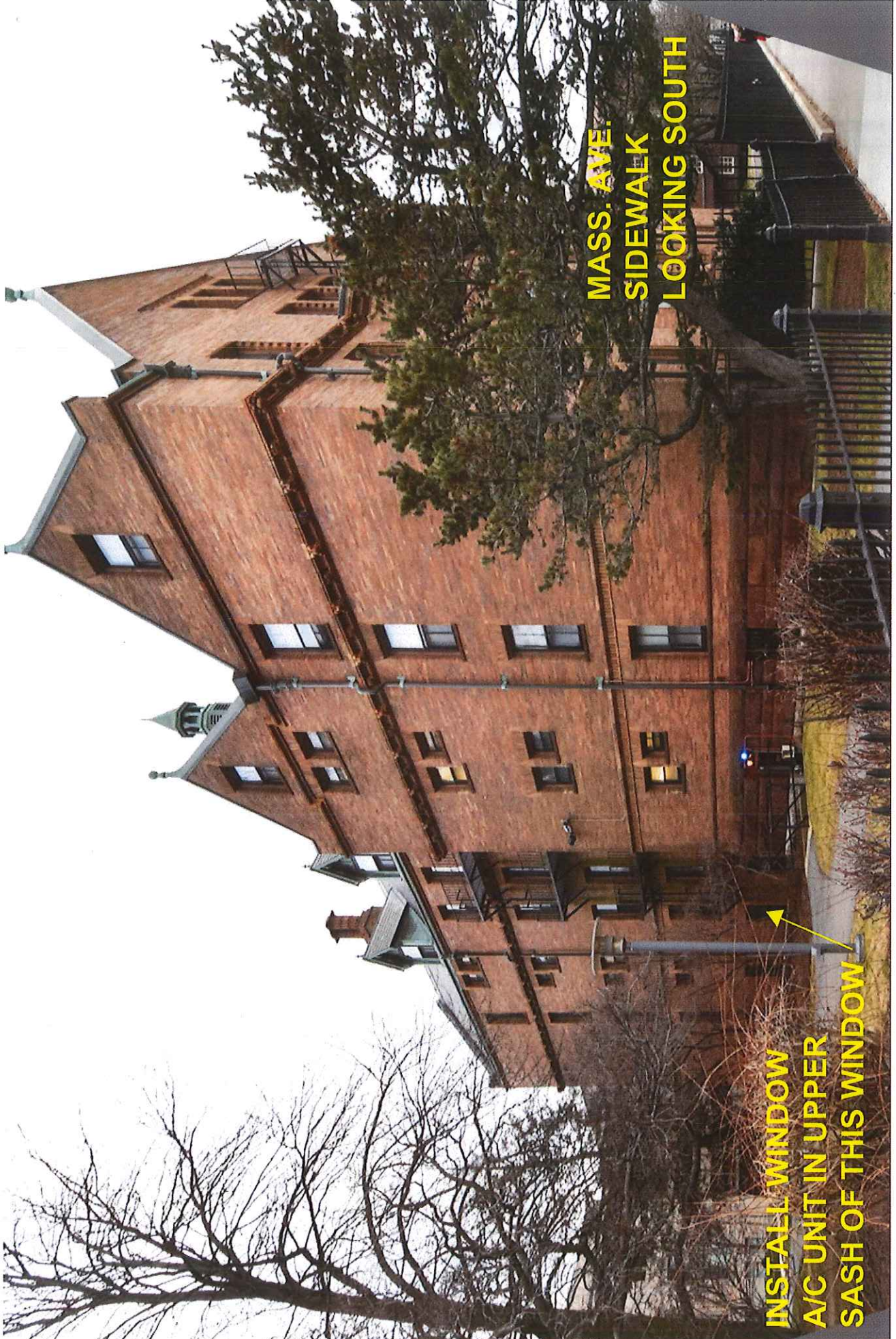
3. Describe the proposed alteration(s), construction or demolition in the space provided below: (An additional page can be attached, if necessary).

President and Fellows of Harvard College proposes to install a window AC unit and to modify the existing metal window grating at 1533-1541 Massachusetts Avenue. The AC unit will provide cooling to a new telephone and data equipment room being constructed in the basement.

I certify that the information contained herein is true and accurate to the best of my knowledge and belief. The undersigned also attests that he/she has read the statements printed on the reverse.

Name of Property Owner of Record:		President and Fellows of Harvard College c/o Diane Gray	
Mailing Address:		Harvard Planning Office, 1350 Massachusetts Avenue, 573 Cambridge MA 02138	
Telephone/Fax:	617-496-3606/617-495-0559	E-mail:	diane_gray@harvard.edu
Signature of Property Owner of Record:		<i>Diane Gray</i>	
(Required field; application will not be considered complete without property owner's signature)			
Name of proponent, if not record owner:			
Mailing Address:			
Telephone/Fax:		E-mail:	

(for office use only):			
Date Application Received:	<u>4/11/17</u>	Case Number:	<u>3776</u>
		Hearing Date:	<u>5/4/17</u>
Type of Certificate Issued:		Date Issued:	



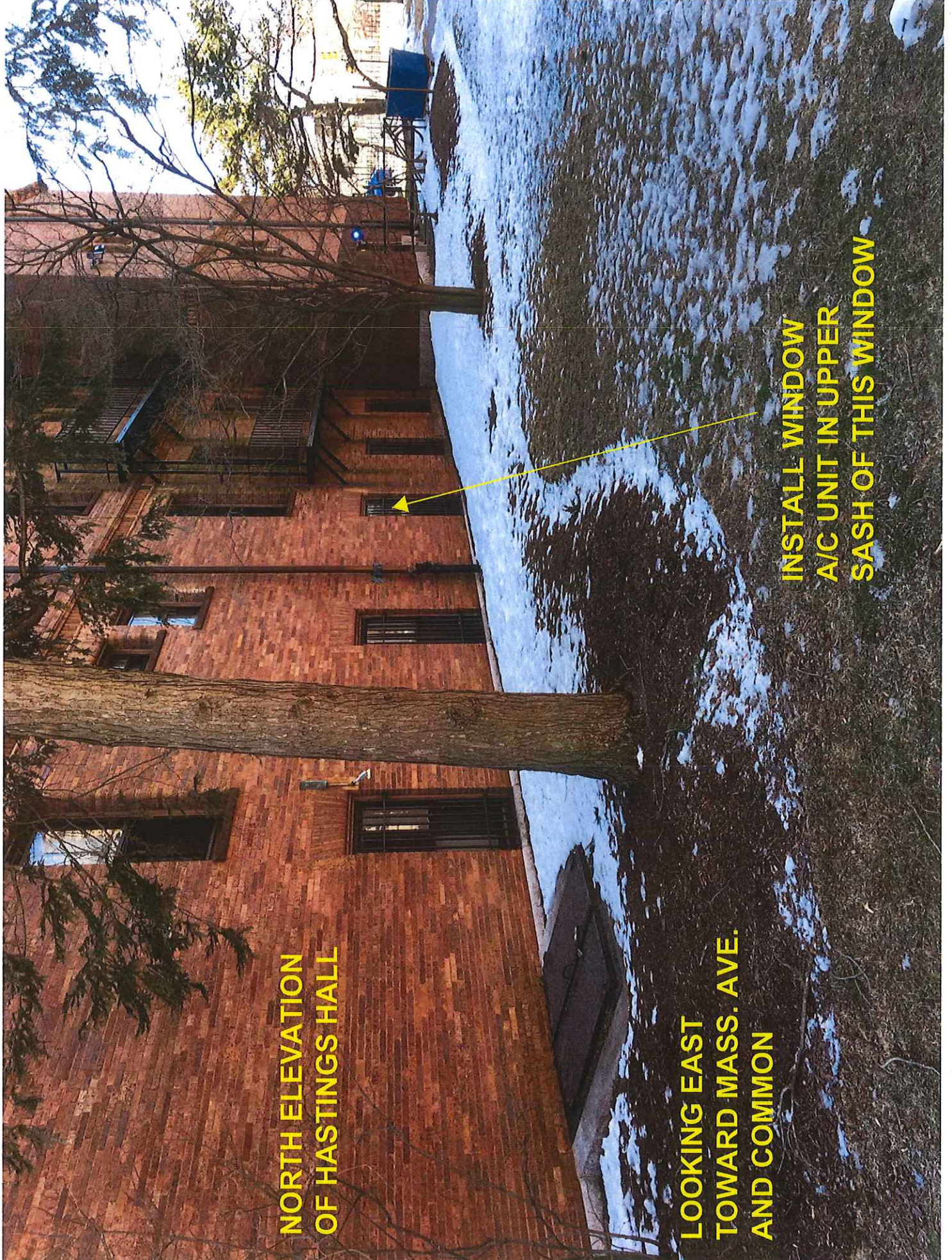
**MASS. AVE.
SIDEWALK
LOOKING SOUTH**

**INSTALL WINDOW
A/C UNIT IN UPPER
SASH OF THIS WINDOW**

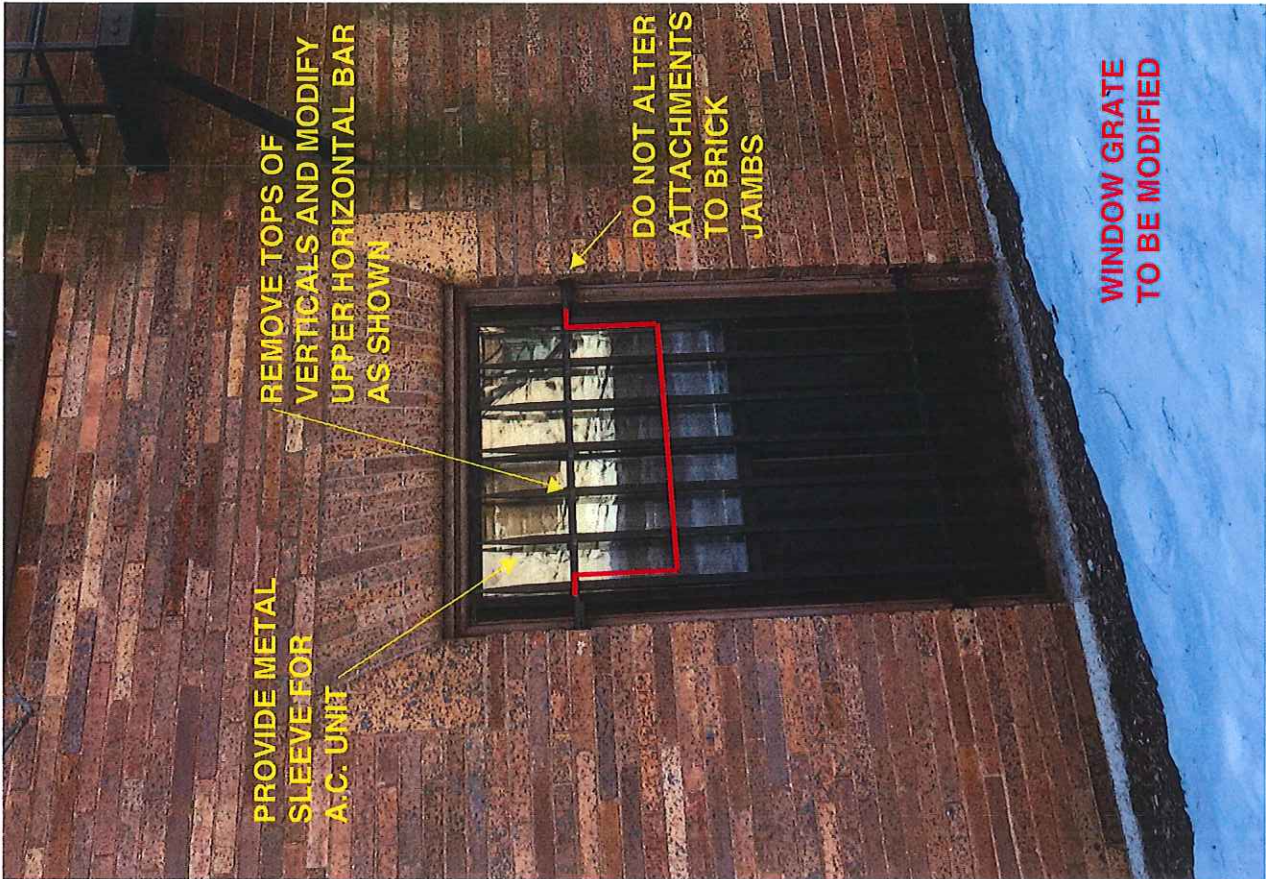
**NORTH ELEVATION
OF HASTINGS HALL**

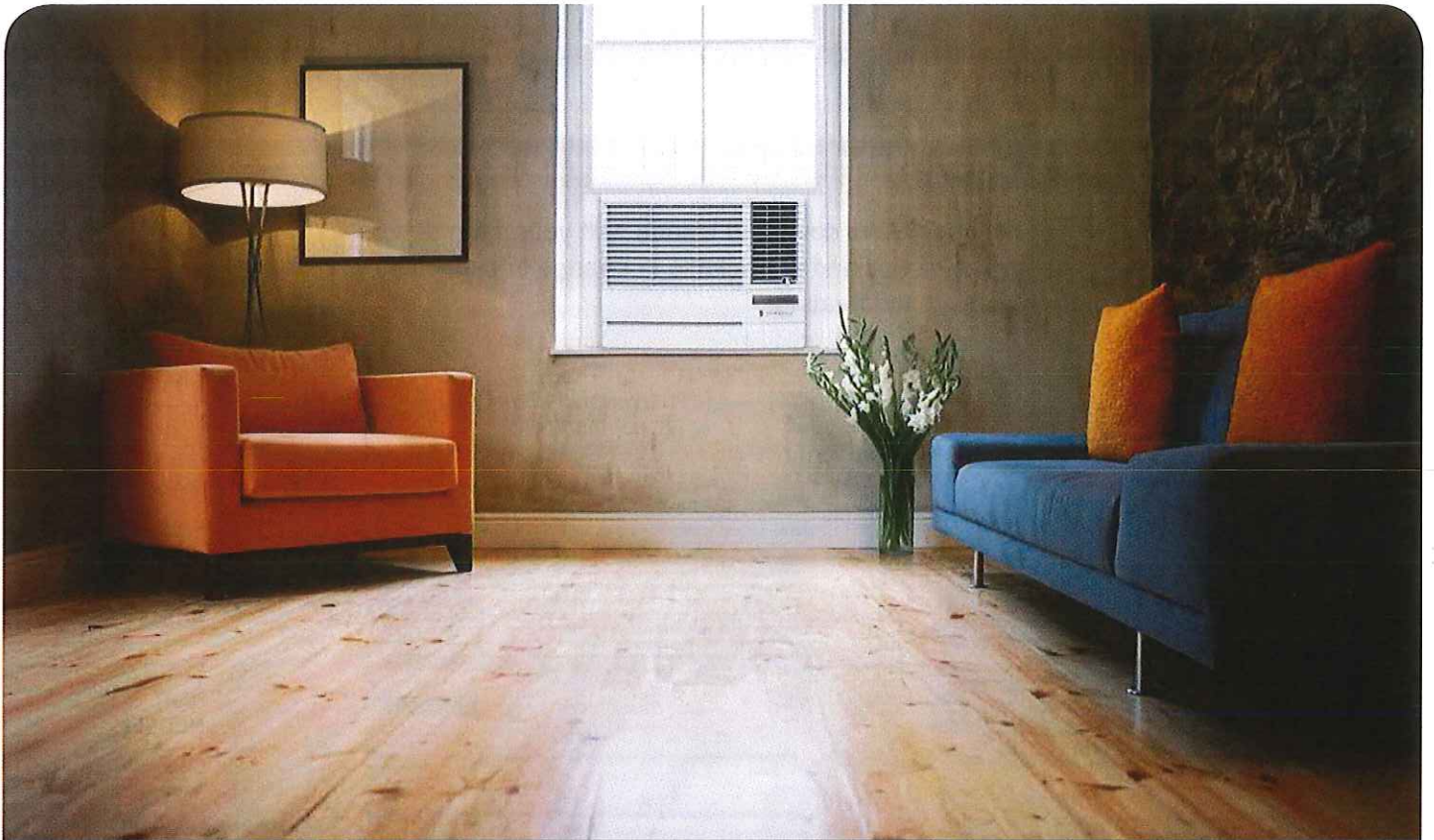
**LOOKING EAST
TOWARD MASS. AVE.
AND COMMON**

**INSTALL WINDOW
A/C UNIT IN UPPER
SASH OF THIS WINDOW**



**EXAMPLE OF
MODIFIED WINDOW GRATE
AND METAL A.C. SLEEVE**





Chill[®] Series

ROOM AIR CONDITIONERS



FRIEDRICH

1883

THE EXPERTS IN ROOM AIR CONDITIONING

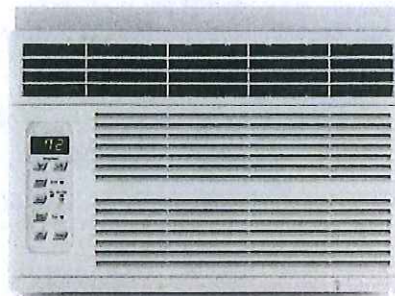
Chill® | Chill®+

PREMIUM LINE

Room Air Conditioners

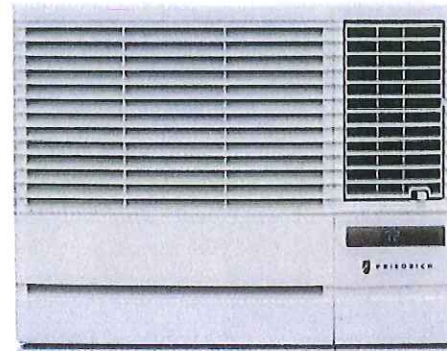
Sleek design in distinctive Designer White color that blends with your room décor. Chill offers outstanding energy efficiency and is available in a range of capacities with convenience features for carefree cooling and heating.

FITS WINDOWS FROM
20 1/8" TO 36" WIDE



CP05

FITS WINDOWS FROM
20 1/8" TO 42" WIDE



CP06, CP08, CP10, CP12, CP15, CP18 and CP24
EP08, EP12, EP18, and EP24

Chill®

COOL
ONLY
MODELS

5200 to
24000 Btu

Chill®+

ELECTRIC
HEAT
MODELS

COOLING
7500 to
23000 Btu

HEATING
3850 to
12000 Btu

SPECIFICATIONS

Model	UPC	Cooling Btu	Heating Btu	Volts Rated	Cooling Amps	Cooling Watts	Heating Amps	Heating Watts	EER	CEER	Estimated Yearly Energy Cost	Moisture Removal-Pints/HR
Chill® (Cool Only)												
CP05G10B	724587431728	5200	—	115	4.3	460	—	—	11.2	11.0	\$42	1.5
★ CP06G10B	724587432824	6000	—	115	4.6	490	—	—	12.2	12.1	\$44	1.8
★ CP08G10B	724587432831	8000	—	115	6.2	660	—	—	12.2	12.0	\$60	2.2
★ CP10G10B	724587432848	10000	—	115	7.7	820	—	—	12.1	12.0	\$74	3.0
★ CP12G10B	724587432855	12000	—	115	9.3	990	—	—	12.1	12.0	\$89	3.3
★ CP15G10B	724587432862	15500	—	115	11.9	1300	—	—	11.9	11.8	\$117	4.0
★ CP18G30B	724587432879	19000/18600	—	230/208	7.4/8.0	1590/1560	—	—	11.9/11.9	11.8/11.8	\$138	5.5
★ CP24G30B	724587432886	24000/23500	—	230/208	10.6/11.4	2260/2310	—	—	10.4/10.4	10.3/10.3	\$209	6.8
Chill®+ (Electric Heat)												
EP08G11B	724587431735	7500	3850	115	6.3	670	11.0	1260	11.2	11.0	\$61	2.1
EP12G33B	724587431742	12000/11500	11200/9200	230/208	4.8/5.1	1060/1010	14.0/15.3	3500/2900	11.3/11.3	11.2/11.2	\$96	3.3
EP18G33B	724587431759	18000/17500	12000/9800	230/208	7.2/7.8	1600/1560	16.0/15.0	3670/3100	11.2/11.2	11.1/11.1	\$144	5.5
EP24G33B	724587431766	23000/22500	12000/9800	230/208	10.6/11.5	2340/2290	16.0/15.0	3670/3100	9.8/9.8	9.8/9.8	\$211	6.5

Chill+ Electric Heat heating information indicates electric heat strip performance.

As an ENERGY STAR® partner, Friedrich Air Conditioning Co. has determined that the selected ENERGY STAR® models meet the ENERGY STAR® guidelines for energy efficiency. The consumer, through the AHAM Room Air Conditioner Certification Program, can be certain that the AHAM Certification Seal accurately states the unit's cooling and heating capacity rating, the amperes and the energy efficiency ratio. EER is the unit's Energy Efficiency Ratio; CEER is the unit's Combined Energy Efficiency Ratio. Your energy costs will depend on your utility rates and use. The estimated energy cost is based on a electricity cost of \$.12 per kWh. For more information, visit www.ftc.gov/energy.

Due to continuing research in new energy-saving technology, specifications are subject to change without notice.

FEATURES

Comfort & Convenience

- 24-hour timer
- Auto air sweep swing louvers* provide more even air distribution
- Chill units feature a 3 speed fan for cooling or fan-only setting
Chill+ units feature a 2 speed fan for cooling, heating or fan-only setting
- Chill+ units quickly provide warm air into the room
- Ultra quiet operation
- 4-way air flow control
- Auto-restart saves settings if power is interrupted
- Slinger ring condensate removal

Health

- Washable, antimicrobial air filter
- Check filter alert
- Stale air exhaust*

Safety & Security Features

- EntryGard™ anti-intrusion protection

Installation Features

- Slideout chassis*
- All Chill models have sleeve built into the unit
- Install in window or thru-wall**
- Standard installation hardware
- Expandable side curtains
- Power cord can run either left or right out of the side of the unit front*

Earth Friendly

- Zero Ozone Depletion Refrigerant
- R32 refrigerant with low Global Warming Potential (select models)
- ENERGY STAR® qualified models
- Money Saver® setting saves money by operating the fan only when cooling

Chill+ models can be used for primary heating in moderate climates and as supplemental heating in colder climates.



HEAT

They are ideal for rooms that are always 'too cold in winter'.

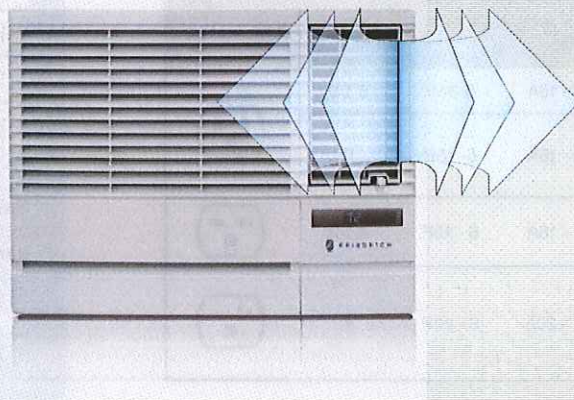
Electric heat models utilize a heating element to provide warm air quickly.

Your Friedrich dealer can assist you in selecting the right unit for your particular climate and application.

Refrigerant	CFM	Net Wt. lbs.	Ship Wt. lbs.	Sleeve
R410A	140	46	50	P1
R410A	200	62	71	P6
R32	250	63	72	
R32	300	75	85	P7
R32	330	83	93	
R32	400	117	132	P9
R32	520	132	147	
R32	590	137	152	
R410A	250	79	85	P6
R410A	265	87	93	P7
R410A	430	136	150	P9
R410A	560	146	160	

AUTO AIR SWEEP

Oscillating fan for constant air movement left and right*



LCD REMOTE

Select MODE, FAN SPEED, MONEY SAVER®, AUTO AIR SWEEP*, adjust TEMPERATURE and set the TIMER.



R32



* Feature not available on CP05. ** CP05 has a fixed chassis and is for window installation only.

INSTALLATION

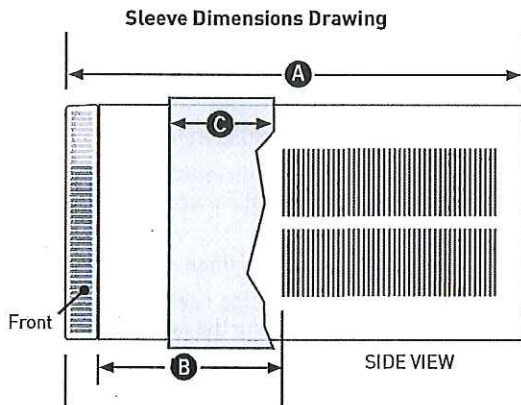
Sleeve	Height Inches	Width Inches	Depth with Front Inches	Shell Depth to Louvers Inches	Minimum Extension Into Room* Inches	Minimum Extension Outside * Inches	Window Width Inches		In-wall Installation Finished Hole Inches			Carton Dimensions Inches		
			(A)	(B)			Minimum**	Maximum	Height	Width	Max. Depth (C)	Height	Width	Depth
P1†	12 5/16"	18 9/16"	15 7/16"	5"	3 1/2"	10 3/4"	20 1/8"	36"	NOT FOR THRU-WALL			15 1/4"	22 1/4"	17 1/2"
P6	13 7/8"	18 9/16"	20 11/16"	8 1/8"	4 1/2"	11"	20 1/8"	36"	14 1/8"	18 7/8"	7 1/2"	17 7/8"	22 3/4"	22"
P7	15"	23 5/8"	22 1/16"	8 3/4"	4 1/2"	12"	25 1/4"	39"	15 1/4"	23 7/8"	8"	18 3/4"	26 3/4"	23 7/8"
P9	16 7/8"	25 1/2"	30 5/16"	10 1/4"	5 1/2"	19 1/2"	26 1/2"	42"	17 1/8"	26 1/4"	9"	21 1/2"	33"	28 7/8"

All Chill models have sleeve built into the unit.

* Minimum extensions when mounted in a window.

** Minimum widths achieved using one side curtain assembly as opposed to both in a standard installation.

† Sleeve P1 does not have In-wall hole dimensions, as these units are fixed chassis and should not be installed In-wall.



CIRCUIT RATING/ BREAKER

Model	Circuit Rating Breaker or T-D Fuse	Plug Face (NEMA#)	Power Cord Length (ft.)	Wall Outlet Appearance
CP05G10B	125V - 15A	5-15P	6 1/2	
CP06G10B, CP08G10B, CP10G10B, CP12G10B and CP15G10B, EP08G11B.	125V - 15A	5-15P	6	
CP18G30B	250V - 15A	6-15P	4 1/2	
CP24G30B, EP12G33B, EP18G33B and EP24G33B.	250V - 20A	6-20P	4	

COOLING SIZING GUIDE

Area to be conditioned in sq. ft.	Approximate Cooling Btu Required
100 - 150	5000
150 - 250	6000
250 - 300	7000
300 - 350	8000
350 - 400	9000
400 - 450	10000
450 - 550	12000
550 - 700	14000
700 - 1000	18000
1000 - 1200	21000
1200 - 1400	23000
1400 - 1500	24000

Based on normal room insulation, average number of sun exposed windows and two person occupancy.

1. If heavily shaded, reduce cooling Btus required by 10%
2. If very sunny, increase cooling Btus required by 10%
3. Add 500 Btus per person for more than 2 people
4. Add 4,000 Btus if the area is a kitchen



Friedrich Air Conditioning Co. | 10001 Reunion Place, Suite 500 | San Antonio, TX 78216 | 877.599.5665 | www.friedrich.com