

# ВЕНТИЛЯЦІЯ, ОСВІТЛЕННЯ ТА

697  
B29

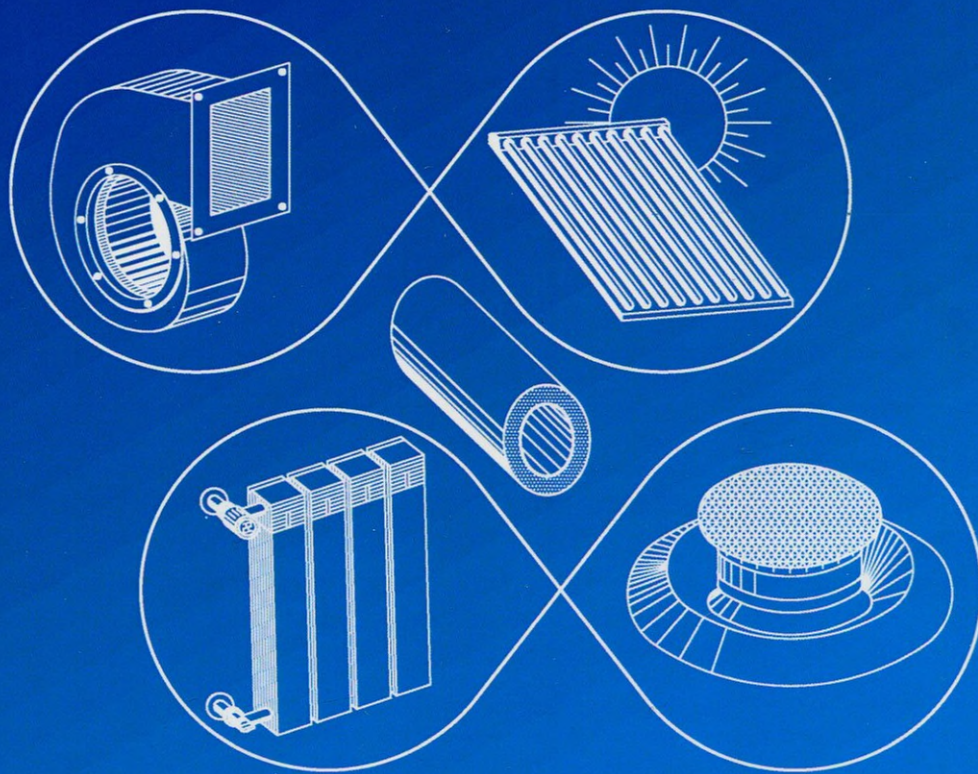


# ТЕПЛОГАЗОПОСТАЧАННЯ

2019

Випуск 31

**70 років кафедрі  
теплогазопостачання і вентиляції**



**Науково-практична конференція  
Теорія і практика формування мікроклімату  
та енергопостачання будівель і споруд  
17-18 жовтня 2019 р.**

**КИЇВ 2019**

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE  
Kiev National University of Construction and Architecture

**VENTYLIATSIIA, OSVITLENNIA  
TA TEPLOHAZOPOSTACHANNIA**

SCIENTIFIC AND TECHNICAL COLLECTION

*founded in 2001*

ISSUE 31

Kyiv 2019

,

-

*2001*

31

2019





..... 5

..... 6

..... 2 ..... 16

..... 24

..... 33

..... 42

..... 55

..... 63

70- ..... 71



**АВиК**

**Автоматизация Вентиляция и Кондиционирование**



**отопление дымоудаление**

## CONTENTS

<i>Information for the Authors</i> .....	5
O. Vozniak, V. Dovhaliuk, I. Sukholova, O. Dovbush <i>Mathematical Simulation of a Twisted Inlet Jet at Variable Mode with Using Various Turbulence Models (in Ukrainian)</i> .....	6
T. Tkachenko, V. Mileikovskiy, O. Hunchenko <i>Assessment of energy savings and indirect reduction of CO<sub>2</sub> emissions by vertical gardening (in Ukrainian)</i> .....	16
O. Zadoiannyi <i>Grounding of in-depth exergoeconomic analysis of air conditioning systems (in Ukrainian)</i> .....	24
Yu. Franchuk <i>Creation of an Expert-Modelling System for the Analysis of Factors that Affect the Quality of Natural Gas (in Ukrainian)</i> .....	33
L. Koval <i>Prerequisites and Prospects for Establishing Regulations on Artificial Lighting Consistent with Human Biorhythms (in Ukrainian)</i> .....	42
P. Glamazdin, P. Pasichnyk <i>Ways to Reduce Heat Loss in the Radiator Section of the Building Envelope (in Ukrainian)</i> .....	55
Y. Podenezhko, M. Kirichenko, N. Chepurna, V. Chepurnyi <i>Study of Heating Devices Based on First-Order Phase Transition (in Ukrainian)</i> .....	63
<b>TO THE 70 TH ANNIVERSARY OF THE CHAIR OF HEAT GAS SUPPLY AND VENTILATION (in Ukrainian)</b> .....	71

The sponsor of this issue - AVIK LTD *Ideas, which change the world...*  
Automation, Ventilation and Conditioning, heating, smoke-removal



# АВІК

**Автоматизация Вентиляция и Кондиционирование**

