UNIVERSITAS
GADJAH MADA
Optimalisasi Aliran Udara melalui Tata Letak Big Fan pada Gedung Perakitan Mobil dengan Computational Fluid Dynamic
SAHID ALVIN SAPUTRO, Dr. Setyawan Bekti Wibowo, S.T., M.Eng.
Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Agung Pratama, Jihad Hari Ramdani, Kihsan Makbil, & Dwi Mardika Lestari. (2021). Analisis Pengaruh Inlet Temperatur Sistem Pendingin Buatan Terhadap Kenyamanan Termal Kelas Universitas Nusa Putra Dengan Metode Cfd. *Jurnal Permadi: Perancangan, Manufaktur, Material Dan Energi*, *3*(2), 69–87. https://doi.org/10.52005/permadi.v3i2.50

Akmal, S., ZA, N., & Ibrahim, I. (2020). Analisa Profil Aliran Udara Fluida Cair dan Pressure Drop Pada Pipa L Menggunakan Metode Simulasi Computational Fluid Dynamic (CFD). *Jurnal Teknologi Kimia Unimal*, *8*(2), 53. https://doi.org/10.29103/jtku.v8i2.2682

Al-khafaji, O. R., & Alabbas, A. H. (2020). Computational Fluid Dynamics Modeling Study for the Thermal Performance of the Pin Fins Under Different Parameters Computational Fluid Dynamics Modeling Study for the Thermal Perfo ... Computational Fluid Dynamics Modeling Study for the Thermal Performanc. *Materials Science and Engineering PAPER*, *March*.

Amin, M. N., & Hendrawati, D. (2022). Evaluasi Performa Bangunan terhadap Air Change per Hour pada Fasilitas Olahraga: Studi Kasus GOR UII. *Sakapari*, 446–457.

ANSYS, I. (2023). *ANSYS Fluent Computational Fluid Dynamic*. Ansys. http://www.ansys.com/

ASHRAE. (2001). ASHRAE Fundamental Handbook. In Jeanne Baird (Ed.), *Atlanta* (Dennis J.). Director, Communications and Publications.

Atiqur Rahman, M. (2014). Analysis of Lecturing Room using Computational Fluid Dynamics Natural and Forced Ventilation. *International Journal of Engineering Research & Technology* , *3*(3), 653–659. www.ijert.org

Bin, H., Kasim, A., Faizal, M., Mohamad, B., & Alias, S. K. (2020). Computational fluid dynamics analysis on the effect of flow distribution on pedestrian in urban area Computational fluid dynamics analysis on the effect of flow distribution on pedestrian in urban area. *Materials Science and Engineering*. https://doi.org/10.1088/1757-899X/834/1/012030

BMKG. (2023). *Data Temperatur dan Kecepatan Angin di Wilayah Jakarta*

UNIVERSITAS
GADJAH MADA
Optimalisasi Aliran Udara melalui Tata Letak Big Fan pada Gedung Perakitan Mobil dengan Computational Fluid Dynamic
SAHID ALVIN SAPUTRO, Dr. Setyawan Bekti Wibowo, S.T., M.Eng.
Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

Utara. *4*(1), 88–100. https://dataonline.bmkg.go.id/data_iklim

BMKG, A. E. S. K. (2016). *Peraturan Kepala BMKG Nomer 4 Tahun 2016 tentang Pengamatan dan Pengelolaan Data Iklim Di Lingkungan Badan Meteorologi, Klimatologi, dan Geofisika* (p. 140).

Budiyanto, M. A., & Novri, J. (2017). Analysis of convergent and divergent-convergent nozzle of waterjet propulsion by ansys fluent simulation. *RINA, Royal Institution of Naval Architects - Proceedings of 5th International Conference on Ship and Offshore Technology, ICSOT 2017: Development in Ships Design and Construction*, *020066*, 59–63. https://doi.org/10.1063/1.5086613

Cengel, Y. A. (2004). Heat Transference a Practical Approach. In *MacGraw-Hill*, (Vol. 4, Issue 9). http://dx.doi.org/10.1007/978-3-642-20279-7_5

Chandra, J., Putra, P., & Firdianto, A. (2020). Pola aliran udara dan distribusi temperature diinduksi oleh system air conditioning. *Jurnal Teknik Mesin*, *09*(2).

Cho, Y., & Liu, M. (2010). Correlation between minimum airflow and discharge air temperature. *Building and Environment*, *45*(7), 1601–1611. https://doi.org/10.1016/j.buildenv.2010.01.008

Fan, I. (2020). *Spesifikasi Box Fan Imatsu Fan Indonesia*. https://www.kipascke.co.id/~file/box_fan_afl_ldsp1220_lyst-5f4ad-2768_10803.pdf?b706019--

Faye C. McQuiston, Jerald D. Parker, J. D. S. (2005). *Heating, Ventilating, and Air Conditioning Analysis and Design* (V. A. Vargas (ed.); Sixth). John Wiley & Sons, Inc.

Gbaarabe, B., & Sodiki, J. I. (2023). Hybridization of energy systems for air conditioning application in an educational building Hybridization of energy systems for air conditioning application in an educational building. *Engineering and Technology Advances*, *August*. https://doi.org/10.30574/gjeta.2023.16.2.0137

Hedrick, R. L., Thomann, W. R., Aguilar, H., Damiano, L. A., Darwich, A. K. H., Gress, G., Habibi, H., Howard, E. P., Petrillo-groh, L. G., Smith, J. K.,

UNIVERSITAS
GADJAH MADA
Optimalisasi Aliran Udara melalui Tata Letak Big Fan pada Gedung Perakitan Mobil dengan Computational Fluid Dynamic
SAHID ALVIN SAPUTRO, Dr. Setyawan Bekti Wibowo, S.T., M.Eng.
Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

Williams, S. D., Doppel, P. L., Davis, H. D., Fisher, F. J., Morris, W. E., Olsen, J. W. W., Hall, R. L., Reindl, D. T., Anderson, J. R., … Graef, P. T. (2010). Ventilation for acceptable indoor air quality. *ASHRAE Standard*, *8400*(STANDARD 62.1), 1–70.

Hussain, Shafqat, Oosthuizen, P. H., & Kalendar, A. (2012). Evaluation of various turbulence models for the prediction of the airflow and temperature distributions in atria. *Energy & Buildings*, *48*, 18–28. https://doi.org/10.1016/j.enbuild.2012.01.004

Hussain, Suhaila, Illias, S., Mustaffa, M. T., & Alir, K. (2019). *Thermal Comfort Study of a Classroom in Northern Malaysia : A CFD Approach Thermal Comfort Study of a Classroom in Northern Malaysia : A CFD Approach*. *December*. https://doi.org/10.1088/1757-899X/670/1/012011

Ketenagakerjaan, M., & Indonesia. (2018). *Peraturan Menteri Ketenagakerjaan Republik Indonesia Nomer 5 Tahun 2018 tentang Keselamatan dan Kesehatan Kerja Lingkungan Kerja* (p. 258).

Khazaii, J. (2014). Energy-Efficient HVAC Design. In *Energy-Efficient HVAC Design*. Springer International Publishing. https://doi.org/10.1007/978-3-319-11047-9

Kulshreshtha, A., Gupta, S. K., & Singhal, P. (2020). Materials Today : Proceedings FEM / CFD analysis of wings at different angle of attack. *Materials Today: Proceedings*. https://doi.org/10.1016/j.matpr.2020.02.342

Kummitha, O. R., Kumar, R. V., & Krishna, V. M. (2021). CFD analysis for airflow distribution of a conventional building plan for different wind directions. *Journal of Computational Design and Engineering*, *8*(2), 559–569. https://doi.org/10.1093/jcde/qwaa095

Maher, D., Hana, A., & Sammouda, H. (2020). Numerical approximation of air flow , temperature distribution and thermal comfort in buildings. *Scientific African*, *8*, e00353. https://doi.org/10.1016/j.sciaf.2020.e00353

Menteri Kesehatan Nila Farid Moeloek. (2016). *Peraturan Menteri Kesehatan RI Nomer 70 Tahun 2016 tentang Standar dan Persyaratan Kesehatan Lingkungan Kerja Industri* (p. 197).

UNIVERSITAS
GADJAH MADA
Optimalisasi Aliran Udara melalui Tata Letak Big Fan pada Gedung Perakitan Mobil dengan Computational Fluid Dynamic
SAHID ALVIN SAPUTRO, Dr. Setyawan Bekti Wibowo, S.T., M.Eng.
Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

Mohd Noh, A., Mohamad Tahir, M. A., Mat, S., & Dzulkifli, M. H. (2020). CFD simulation of temperature and airflow inside a shipping container size plant factory for optimal lettuce production. *Food Research*, *4*, 54–59. https://doi.org/10.26656/fr.2017.4(S6).039

Mr. Juwang Zhu. (2016). *Sustainable Development Goals (SDGs)*. United Nations. https://sdgs.un.org/

Norbert Lechner. (2015). *Heating, Cooling, Lighting* (4th ed.).

Prasetyo, A., & Wicaksono, N. (2023). Eksplorasi Sustainable Development Goals (SDGs) Disclosure di Indonesia. *Jurnal Akademi Akuntansi*, *6*(1), 125–156. https://doi.org/10.22219/jaa.v6i1.26448

Ratu, R. A., & Anggara, F. (2020). Inventigasi Analisis Numerik pada Pengaruh Perbandingan Diameter Inlet dan Outlet Guide Vane Terhadap Velocity Profile. *Scientific Journal of Mechanical Engineering Kinematika*, *5*(1), 1–10. https://doi.org/10.20527/sjmekinematika.v5i1.98

Riani, N. I., Lostari, Wahyudi, A., & Agus, M. (2023). Pengaruh Variasi Diameter Pipa dan Bukaan Katup pada Alat Uji Osborne Reynolds Apparatus. *Rekayasa Energi Manufaktur) Jurnal* |, *8*(1), 2528–3723. http://doi.org/10.21070/rem.v8i1.1668

Steven T. Taylor, P. . (2009). *Fundamentals of HVAC Control Systems* (SI, Issue July). Elsevier.

T. Al-Shemmeri. (2012). Engineering Fluid Mechanics. In *Engineering Fluid Mechanics*. eBooks Bookboon. https://doi.org/10.1007/9789811301735

Utami, N. D. (2017). *Pengaruh keselamatan kerja terhadap kinerja karyawan melalui lingkungan kerja (studi pada divisi industri pt. barata indonesia gresik)*. *5*, 1–8.

Wang, C., Holmberg, S., & Sadrizadeh, S. (2018). Numerical study of temperature-controlled airflow in comparison with turbulent mixing and laminar airflow for operating room ventilation. *Building and Environment*. https://doi.org/10.1016/j.buildenv.2018.08.010

You, Y., Wang, S., Lv, W., Chen, Y., & Gross, U. (2021). A CFD model of frost formation based on dynamic meshes technique via secondary development of

UNIVERSITAS
GADJAH MADA
Optimalisasi Aliran Udara melalui Tata Letak Big Fan pada Gedung Perakitan Mobil dengan Computational Fluid Dynamic
SAHID ALVIN SAPUTRO, Dr. Setyawan Bekti Wibowo, S.T., M.Eng.
Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

ANSYS fluent. *International Journal of Heat and Fluid Flow*, *89*(March), 108807. https://doi.org/10.1016/j.ijheatfluidflow.2021.108807

Yunus, A. C., & Cimbala, J. M. (2012). Fluid Mechanics Fundamental and Aplication Third Edition. In *Angewandte Chemie International*. http://arxiv.org/abs/1011.1669%0Ahttp://dx.doi.org/10.1088/1751-8113/44/8/085201